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Athens State University



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Catalog
2002-2003
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Athens State University

Founded in 1822

State Affiliated

Catalog & Announcements for 2002-2003

Vol. XXVII, No. 1

ACCREDITATION

Athens State University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools, (1866 Southern Lane, Decatur, Georgia 30033-4097; Telephone Number 404 679-4501) to award the baccalaureate degree.

The School of Education at Athens State University is accredited by the National Council for Accreditation of Teacher Education (NCATE), 2010 Massachusetts Avenue, N.W., Suite 500, Washington, D.C. 20036, Phone (202) 466-7496.

Athens State University, through its School of Business, is nationally accredited by the Association of Collegiate Business Schools and Programs to offer the following business degree: The Bachelor of Business Administration (B.B.A.) with majors in Accounting, Human Resource Management, Management, and Management of Technology.

Athens State University is approved by the Alabama State Department of Education for the training of elementary, secondary, and postsecondary school teachers. The Alabama State Department of Education is a member of the National Association of State Directors of Teacher Education Certification.

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Toll free #: 1-800-522-0272 or call (256)-233-8100
www.athens.edu
Fax #: (256) 233-8164

The catalog is the official announcement of the programs, requirements, and regulations of Athens State University. Students enrolling in the University are subject to the provisions stated herein. Statements regarding courses, fees, and conditions are subject to change without advance notice.

ALABAMA ARTICULATION PROGRAM (STARS)

The Alabama Articulation Program (also called STARS--Statewide Articulation Reporting System) is an Internet based articulation and transfer planning system designed to inform students who attend public two-year and four-year institutions about approved transfer courses and programs. STARS is an efficient and effective way of providing students, counselors, advisors, and administrators with accurate information upon which transfer decisions can be made. STARS is the information link between the public institutions of higher education in the State of Alabama. The STARS Internet System, if used properly, can prevent the loss of course credit hours, can provide direction for scheduling of course work, and can ease the transition from one institution to another. Students who are interested in this program should first see their advisor. Transfer guides can be obtained directly through the STARS Home Page at http://stars.troyst.edu. For further information contact the respective School (School of Arts and Sciences, School of Business, or School of Education).

NON-DISCRIMINATION

It is the official policy of Athens State University not to discriminate on the basis of race, color, sex, religion, national origin, disability, or age in its educational programs, activities, admissions, or employment as required by Title VI and VII of the Civil Rights Act of 1964 (Sexual Discrimination/Sexual Harassment); Title IX of Education Amendments of 1972; Sections 503 and 504 of the Rehabilitation Act of 1973, and the 1990 Americans with Disabilities Act.

Any person, who believes himself or herself or any specific class of individuals, to be subjected to discrimination prohibited by Title VI, Title VII, or Title IX of the Act or Regulations issued thereunder may, himself or herself or a representative, file a written complaint with the United States Commissioner of Education or with the Dean of Student Affairs at this institution (or both).

SEXUAL HARASSMENT POLICY

Athens State University is committed to maintaining an environment free of objectionable and disrespectful conduct and communication of a sexual nature. Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature may constitute sexual harassment, especially when submission to such conduct is made either explicitly or implicitly a term or condition of the measure of a student's performance. Whenever there is such an abuse of authority or neglect of responsibility, the administration will take prompt and corrective action consistent with appropriate discipline provisions of state regulations and law.

SEXUAL HARASSMENT GRIEVANCE PROCEDURE

Should a student feel he/she has been sexually harassed, he/she should contact either the immediate supervisor of the alleged perpetrator or the appropriate university official.

Athens State University has in place an appropriate grievance procedure for sexual harassment and other grievances should a student feel it necessary to file. Grievance of a general nature may be filed with the Associate Dean of Student Affairs in the Sandridge Student Center (1-800-522-0272 or 256-8171) or the grievance may be pursued through the appropriate supervisor. A copy of step-by-step procedures for filing a grievance may be obtained in the President's Office.

DISABILITY STATEMENT

Athens State University does not discriminate on the basis of disability in the admission or access to, or treatment or employment in, its programs or activities. An ADA/504 Coordinator has been designated to insure compliance with the non-discrimination requirements contained in Section 35.107 of the Department of Justice regulations. Information concerning the provisions of the Americans with Disabilities Act, and the rights provided thereunder, are available from the ADA/504 Coordinator.

Athens State University will make every reasonable attempt to provide accommodations needed by individuals with disabilities. Accommodations will consist of working with the Division of Rehabilitation Services and the Alabama Department of Education to provide adaptive equipment, facility modification, and any other reasonable measures available to provide a satisfactory learning and working environment.

It is the responsibility of the individual to notify Athens State University of a disability which may require accommodation. If you have a disability that might necessitate adaptive materials, services, or assistance, please make this known so that the appropriate arrangements can be made. During the day, individuals may contact the ADA/504 Coordinator, second floor of the Student Center (233-8285); during the evening, individuals may contact the Evening Coordinator, first floor of the Student Center (233-6540) , and on weekends contact the library.

EDUCATION RIGHTS AND PRIVACY ACT OF 1974

In accordance with the Family Educational Rights and Privacy Act (Sec. 513 of PL 93-380, education amendments of 1974, which amends the General Education Provisions Act, Sec. 438) students of Athens State University are hereby informed of their right of access to their official records as described in the act. In accordance with Public Law 93-380, the Family Educational Rights and Privacy Act of 1974, each student and former student of Athens State University has the right to inspect his or her official educational records in the Records Office. This right of inspection does not apply to any confidential information submitted to this office prior to January 1, 1975, nor to access by students or former students to financial records of their parents. Under this act, the University may not release information concerning a student without the student's written permission.

The following is a list of directory information which may be made available regarding students of the University without their prior consent and is considered part of the public record of their attendance: (1) name, (2) permanent and local addresses, (3) telephone listing, (4) date and place of birth, (5) major fields of study, (6) dates of attendance, (7) degrees and awards received, (8) high school and other colleges and universities attended, and (9) participation in officially recognized organizations, activities, and sports. The student is entitled to request in writing, that any or all of this information not be made publicly available prior to the end of the registration period for any given term.

Any referral in this catalog to credit from educational institutions, implies that said institution is located within the confines of the United States, its territories or its military bases.

Athens State University adheres to the Drug-Free Workplace Policy. Copies of the policy are distributed to all faculty, staff and students.

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The programs, curricula, and fees as set forth in this catalog are subject to change at any time at the discretion of Athens State University or the Alabama State Board of Education. Because of the possibility of change or undetected error, important points of fact and interpretation should be confirmed by the appropriate University official.

GENERAL INFORMATION

THE ALABAMA COLLEGE SYSTEM
MISSION STATEMENT

The Alabama College System, consisting of public two-year community, junior, and technical colleges and an upper division university, seeks to provide accessible quality educational opportunities, promote economic growth, and enhance the quality of life for the people of Alabama.

ATHENS STATE UNIVERSITY
MISSION STATEMENT

Athens State University is a baccalaureate degree granting institution offering coursework at the junior and senior level. Located in northern Alabama, Athens State University acknowledges a commitment to serve transfers of accredited junior, community, and technical colleges as well as those from other institutions of higher education. The University prepares students for professional careers, graduate school, lifelong learning, and enrichment. The University, through individual attention, quality teaching, and a varied course delivery system assists students in the timely achievement of their professional and career goals. In addition, Athens State University offers programs of continuing education and community services that provide a variety of cultural and professional opportunities to the people in our region. Governed under the authority of the Alabama State Board of Education, Athens State University provides affordable education in an environment which recognizes diversity and nurtures the discovery and application of knowledge.

GOALS

1. To provide educational opportunity to postsecondary students through carefully planned and implemented programs of study.
2. To serve the student effectively and efficiently by providing varied scheduling and cooperative arrangements with other institutions.
3. To recruit, retain, and promote professional development of qualified faculty and staff.
4. To provide and maintain appropriate learning resources which are supportive of student learning, quality teaching, scholarly research, diversity, and technological proficiency.
5. To develop and maintain periodic internal evaluation to ensure that all programs are operating within a manner consistent with the mission of the University.
6. To provide opportunities for students to expand their intellectual, social, and cultural horizons.
7. To provide and maintain student services which furnish necessary information, financial assistance, guidance counseling to assist progress toward personal, academic, and career goals.
8. To promote and maintain effective student recruitment and retention.
9. To promote the use of appropriate University and community resources to facilitate educational and training programs for the diversified needs of business, industry, education, and government in addition to providing cultural and intellectual enrichment.
10. To acquire and administer efficiently and effectively all fiscal resources.
11. To provide, develop, and maintain a physical plant appropriate for the support of the University programs.
12. To effectively communicate the University's vision and goals as a baccalaureate degree granting institution to internal and external constituencies.

GOVERNANCE

Athens State University is a baccalaureate degree granting institution operating under the control of the Alabama State Board of Education. The president is the chief executive officer of the University and is directly responsible to the State Board of Education through the Chancellor of Postsecondary Education.

HISTORY

Athens State University is both the oldest and the youngest institution of higher education in Alabama's state educational system. The University was founded in 1822 by local citizens who purchased five acres of land, erected a building, and began Athens Female Academy. Ownership of the school was transferred in 1842 to the Tennessee Conference of the Methodist Church. With the birth of the North Alabama Conference of the Methodist Church in 1870, the College came under the jurisdiction of that body.

On May 10, 1974, the Board of Trustees requested from the North Alabama Conference of the United Methodist Church that the College seek affiliation with the State of Alabama. The conference, at its annual meeting in June, 1974, gave the Board of Trustees this permission and authorized the transfer of the College to the State of Alabama.

In June 1975, the College was accepted by the Alabama State Board of Education subject to the appropriation of operating funds by the Alabama Legislature. Later that year, the Legislature appropriated funds for the operation of the College to serve the graduates of state junior, community, and technical colleges/institutes.

The institution's name has changed several times in its history, following adjustments in purpose and governance. Athens Female Academy, upon transfer to the Tennessee Conference of the Methodist Church in 1842, became Athens Female Institute. Then in 1889 after having been transferred to the newly formed North Alabama conference, the College was known as Athens Female College. In 1931, the College became coeducational and was known as Athens College. In 1975, when the institution became part of the state educational system, it was renamed Athens State College, marking the initiation of an era of increased opportunity for service. In 1998, a bill was passed by the legislature to rename the College to Athens State University. The long history of service by the University is the foundation upon which the future of the University rests.

BUILDINGS

Brown Hall
Brown Hall serves as the administrative building. It contains the offices for the President, the Dean of Academic Affairs, the Special Assistant to the President for External Affairs and Director of Alumni Affairs and the Counselor of Arts and Sciences.

Chasteen Hall
Chasteen Hall serves as a classroom building. It is located one block west of the main campus at the corner of Clinton and Hobbs Streets.

Carter Physical Education Center
The gymnasium, faculty offices, and classrooms are located in the Carter Physical Education Center.

Classroom Building
The Classroom Building contains classrooms, the Limestone County Video Conference Center, student lounge, and the Office of Student Financial Services.

Founders Hall
Founders Hall contains the Business Office, Dean of Financial Affairs Office, Director of Physical Plant Office, the Reading and Math Clinic, the Writing Center, classrooms, MIS Department, and faculty and staff offices for the School of Business and the School of Arts and Sciences.

Library
The Athens State University Library is located at the corner of Pryor Street and Elkton Street. An office for the media specialist is also located in the library building.

McCain Hall
McCain Hall contains offices for the School of Education and Science in Motion (chemistry and biology).

McCandless Hall
McCandless Hall contains a small theater, faculty offices for the School of Arts and Sciences, and classrooms.

Naylor Hall
Naylor Hall contains offices for the School of Arts and Sciences faculty.

Sanders Hall
Sanders Hall is a coeducational residence hall.

Sandridge Student Center
The Sandridge Student Center contains offices for the Dean of Student Affairs, student activities, admissions counseling, student support services, counseling and career services, admissions, records, testing, recruitment, veterans affairs, evening services and the publications department. In addition, there is a campus post office, food service, bookstore, ballroom, recreation areas, and meeting rooms.

Waters Hall
Waters Hall contains classrooms and offices for the School of Arts and Sciences.

DIRECTORY OF SERVICE AREAS

Academic Affairs

The Office of the Dean of Academic Affairs is located on the second floor of Brown Hall. The Dean of Academic Affairs and staff are available to assist you in your academic concerns. Appointments may be made by calling 233-8214. For information concerning degree options contact: The School of Arts and Sciences, Dr. Charles Chapman, Dean, 216-6608; the School of Business, Dr. Robert Gulbro, Dean, 233-8116; or the School of Education, Dr. Mary Lou Maples, Dean, 233-8187.

Alabama Science in Motion Program

Established by the Alabama Legislature in 1994, the Alabama Science in Motion (ASIM) Program supports public secondary school biology, chemistry, and physics laboratory activities. Athens State University provides teacher training and disseminates equipment to support biology and chemistry laboratory activities at public high schools in Limestone, Lawrence, Morgan, Cullman, and Blount counties. For additional program information, contact the Athens State University ASIM Program Site Director.

Alumni Association

The Athens State University Alumni Association's mission and goal is to enhance the feeling of loyalty and commitment to the University and its alumni. It provides services and programs for its thousands of alumni throughout the world. All functions and

services are coordinated and administered by the Office of Alumni Affairs located in Brown Hall. The Athens State University Column and other alumni publications keep the active alumni and their families and friends informed about the University and the association. Traditional programs such as the annual homecoming weekend festivities, the fifty-year club celebration, and the alumni scholarship program, in addition to chapter meetings, insure opportunities for socialization and sharing among the Athens State University family of alumni, students, faculty, staff and friends. Information regarding alumni events may be obtained by calling 233-8275.

Bookstore

The bookstore is located on the lower level of the Sandridge Student Center and carries a full line of University textbooks, instructional and educational materials, and a variety of items incidental to student needs.

Business Office

The Business Office, located in Founders Hall, handles financial transactions relating to the University and student activities. Should you need information regarding financial affairs call 233-8204 and the Dean of Financial Affairs' secretary will direct you to the proper extension. The Business Office hours are 8:00 a.m. - 6:00 p.m., Monday through Thursday; and 8:00 a.m. - 4:30 p.m. on Fridays. The Business Office closes at 4:30 p.m. on days when there are no classes.

Center for Economic Education

Athens State University sponsors a Center for Economic Education for the purpose of improving the level of economic understanding in the North Alabama area. As a network member of the Alabama Council on Economic Education and as an affiliate member of the National Council on Economic Education, the Athens State University center sponsors and conducts in-service training programs for elementary and secondary teachers employed by local school systems. Dr. Bill Wilkes serves as the Director of the Center.

Continuing Education and Community Services

Continuing Education and Community Services are an integral part of Athens State University and are primarily concerned with the special studies aspects of the educational process within the University and the community. The role of Continuing Education and Community Services is prescribed in Criteria 4.6 of the University Delegate Assembly of the Southern Association of Colleges and Schools. Basic programs are developed through the academic areas to meet the following needs: (1) noncredit courses, (2) seminars, (3) conferences, (4) institutes, (5) workshops, and (6) CEU courses. Athens State University does not accept continuing units (CEU's) for academic credit.

Curriculum Lab

The Curriculum Lab is a resource center providing materials and services for students enrolled in the Teacher Education Program. The Lab houses elementary and secondary texts, teacher editions, and resource materials for most subject areas taught in the nation's schools, as well as lesson planning resources. The Curriculum Lab is located in the basement of McCain Hall and is ADA accessible by entering from the east side door, Room 203. Hours are posted each semester.

Library

The Athens State University Library is located on the corner of Pryor and Elkton Streets and has holdings in excess of 100,000 volumes and subscribes to 262 journals and magazines. The library also has access to 6700 on-line full text periodicals. Journals may be accessed through print and computerized indexes, such as ABI-INFORM, ERIC, Academic Abstracts, and Newsbank. Holdings of the library are enhanced by membership in regional and national consortia: the Alabama Library Exchange, the Library Management Network, the Southeastern Library Network, and the Network of Academic Libraries (NAAL). Special collections include rare books, University archives, local history files, and an extensive religion collection. Library orientation is provided through individual or scheduled group sessions. A variety of informational handouts are also available. The library is open 80 hours per week (seven days a week), except for holidays. The library telephone number is 233-8218.

Math Lab

The Math Lab is located in Waters Hall, Room 4. It offers videotaped lectures with facilities for viewing, computers with a variety of math-related software and personal tutorial assistance. Lab hours change each semester.

North Alabama Teacher Exchange (NATE)

The North Alabama Teacher Exchange (NATE) is located in the little beige house between Founders and McCain. NATE, one of eleven Regional Inservice Centers that were established in the 1980's by the State Department of Education, is administered by Athens State University to provide inservice programs for teachers in a five county region in north Alabama. The inservice programs coincide with the critical need areas identified by the State Department of Education. NATE also works closely with the ten school districts and 132 schools in the region to provide both district and site-based inservice programs tailored to specific staff development needs. The NATE office is open Monday through Friday 8:00 a.m. - 4:30 p.m. The telephone number for NATE is 1-800-300-6384 or (256) 233-8144.

Reading and Math Clinic

The Reading and Math Clinic, located in Founders Hall, was established in the 1983-84 school year to fulfill the clinical needs of students in the School of Education and to meet the community's needs for a tutoring and enrichment center. In 1985, the clinic was presented the Program of Excellence in Teacher Education Award by the Alabama Association of Colleges for Teacher Education. The Clinic follows the same calendar year as the University, and serves children in kindergarten through grade eight. Tutoring services are provided in the areas of reading and math for a minimal fee of $50.00 for ten sessions. For further information call 233-8106.

Redstone Arsenal Extension

Athens State University operates an extension site on Redstone Arsenal located in Building #3200. The office is open Monday through Friday from 8:00 a.m. until 4:30 p.m. For the convenience of Athens State University students who attend classes at Redstone, admission procedures, counseling, and other school business may be taken care of through the Extension Office. Classes are held in various buildings. Any Athens State University student may take courses at the Extension, however, active duty military, military dependents, retirees, dependents of retirees, and civil service employees at Redstone Arsenal have priority. For further information call the office of the Arsenal Supervisor for Redstone, 842-9708 or the secretary's office at 876-7561. In addition, the fax number is 256-876-8698.

Servicemembers Opportunity General Registry

Athens State University is a member of Servicemembers Opportunity Colleges, a consortium of over 1300 institutions pledged to be reasonable in working with servicemembers and veterans trying to earn degrees even while pursuing demanding, transient careers. As a SOC member we are committed to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and work experiences. SOC is sponsored by fifteen national higher education associations with the military services, the National Guard Bureau, and the Office of the Secretary of Defense serving as cooperating agencies.

Student Affairs Services

The office of the Dean of Student Affairs is located on the upper level of the Sandridge Student Center. Student Affairs Services are organized as follows:

- Admissions Office, lower level of Sandridge Student Center 233-8130
- Athletic Office, Carter Physical Education Center 233-8140
- Admissions Counselor and Veterans Affairs, upper level of Sandridge Student Center 233-8124
- Counseling and Career Services (Career Services, Counseling, Cooperative Education, Services for Students with Disabilities, Student Employment), upper level of the Sandridge Student Center 233-8285
- Recruitment Office, Suite 230, upper level of the Sandridge Student Center 233-8233
- Minority Affairs, lower level of the Sandridge Student Center 233-8129
- Printing and Publications (Post Office included), lower level of the Sandridge Student Center 233-8210
- Records Office, lower level of the Sandridge Student Center 233-8165
- Student Activities Office, upper level of the Sandridge Student Center 233-8227
- Student Financial Services, Classroom Building, lower level 233-8122
- Student Support Services, lower level of the Sandridge Student Center 233-8269
- Testing, lower level of the Sandridge Student Center 233-6540
- Veterans Affairs Office, upper level of the Sandridge Student Center 233-8124

Testing

Athens State University offers certain testing programs for the convenience of Athens State University students and the community. Information and registration packets pertaining to these programs are available in the Evening Services Office in the Sandridge Student Center, 233-6540.

Testing services offered by Athens State University include:

1. PRAXIS (Registration Bulletin includes National Teacher's Examination information)
2. Basic Skills Test (BST)
3. Collegiate Assessment of Academic Proficiency (CAAP)
4. College Level Examinations Program (CLEP)
5. Miller Analogies Test (MAT)
6. Defense Activity for Non-Traditional Educational Support (DANTES)
7. Correspondence testing
8. Information and registration bulletins are available for GRE, GMAT, LSAT & MCAT.

Writing Center

The Writing Center, located in Founders Hall 314, offers free assistance to the Athens State University community—students, faculty, and staff. It is staffed by a director who coordinates services through student tutors proficient in writing skills and who are computer-literate so that they may assist in one-on-one consultation as well as in the use of software tutorials. The purpose of the Center is to provide instruction and encouragement to those who need to improve writing skills as well as to offer assistance to those who wish to enhance their writing skills.

ADMISSION OF STUDENTS

ADMISSIONS COUNSELING

Entering students may obtain advisement through an admissions counselor. The counselor can provide information to assist students in understanding registration procedures, academic requirements, degree programs.

You may contact an admission counselor at the following locations:

- On campus, appointments are recommended, (256) 233-8124 or (256) 233-8233.
- Huntsville, Alabama office hours located on Calhoun Community College Research Park on Monday and Tuesday evenings from 3:00 p.m. to 6:00 p.m. (256) 890-4716.
- Decatur, Alabama office hours located at Calhoun Community College, Chasteen Community Center, Thursday from 9:00 a.m. to 1:00 p.m.

Huntsville and Decatur office will not be open between semesters and during finals.

Students seeking majors in the School of Arts and Sciences should call (256) 233-8277.
Students seeking majors in the School of Business or the School of Education should refer to their section of the catalog.

For information on campus tours call (256) 233-8227.

APPLICATION

Each student applying for admission to Athens State University must complete an Application for Admission and return the application to the Admissions Office accompanied by a required application fee of $30.00. This nonrefundable fee is not applicable to tuition. An application may be accessed on-line by visiting the University's web site on www.athens.edu.

TRANSCRIPTS

The student must provide official transcripts from each college or university previously attended. The applicant must request that these transcripts be sent directly to Athens State University, to the Admissions Office, Sandridge Student Center, 300 North Beaty Street, Athens, Alabama 35611. A student completing a program at another institution and seeking enrollment at Athens State University without sufficient time to arrange for official transcripts prior to registration may be admitted **conditionally** for the semester. A student admitted under this provision must see that all official transcripts are received by the Admissions office **by the end of the student's first term of enrollment** If all official transcripts are not received by the end of the student's first term, the student will not be allowed to register for any future terms.

COLLEGIATE ASSESSMENT OF ACADEMIC PROFICIENCY (CAAP)

The CAAP examination (Reading, Math and Writing) is administered to first time enrollees during their first semester of enrollment. Students who have taken this examination at other institutions may submit scores and be exempt from testing at Athens State University. Students are required to take these examinations as part of the assessment program. (Exceptions: Education majors, special non-degree seeking students and students with four-year degrees.) This assessment provides the institution information on the entering student body as well as provides to each student a "benchmark" on current levels of understanding in these three areas. The scores may assist students in determining course selection or in seeking additional assistance in the Writing Center and Math Lab.

EARLY ADMISSION

A transfer student may be considered for admission with at least forty-one semester hours provided he or she has a cumulative 2.0 grade point average on a 4.0 scale, and has met all gen. ed. requirements (Areas I-IV) before entering Athens State University. Early admission students will be required to supply unofficial transcripts before meeting with the Coordinator of Admissions at which time an early transfer form will be approved. This regulation applies when the student does not plan to receive an associates degree from the junior or community college and does not need additional courses offered at the junior college level.

DUAL ENROLLMENT OF JUNIOR/COMMUNITY COLLEGE STUDENTS

Junior/Community college students with at least a 3.0 grade point average and who have completed at least 32 semester hours at the junior/community/technical college, may--with the permission of the instructional dean of the respective college--dual enroll with Athens State University. Courses taken at Athens State University may not be used to fulfill junior/community college degree requirements and all courses taken at Athens State University will be transcripted on the Athens State University transcript. For further information, contact the Offices of Admissions and Records.

TRANSFER STUDENT ADMISSIONS

The University reserves the right to accept or deny course work presented for transfer. Collegiate work will be considered for transfer credit from postsecondary institutions that are fully accredited by regional accrediting associations and that offer the baccalaureate degree or associate's degree.

Course work presented for transfer from institutions not accredited by regional accrediting associations will be reviewed by the Admissions Committee at Athens State University. Any courses accepted for transfer must be appropriate to the degree and program

selected at Athens State University. For additional information, students may contact the offices of Admissions and Records. Categories for admission of transfer students are as follows:

Admission of Junior/Community College Transfer Students
A junior/community college transfer student may be admitted to Athens State University provided he or she has earned (1) a degree from a two-year institution accredited by the Southern Association of Colleges and Schools or other regional accrediting agency, or (2) sixty-four semester hours of college credit with a 2.0 grade point average on a 4.0 scale or (3) completed all general studies curriculum core requirements (Areas I-IV) and submitted early transfer forms to the Athens State University Admissions Office.

Admission of Technical College/Institute Transfer Students
A student from a regionally accredited technical college/institute may be admitted to Athens State University as a regular degree-seeking student provided he or she has completed a technical program and has received a degree, diploma or certificate. The student must submit an official transcript for review. Credit may be awarded for a maximum of thirty-nine semester hours depending on the particular technical program and the baccalaureate degree program selected. Individual related subject courses and grades cannot be directly transcripted as regulated by the State Department of Education and the Commission on Colleges of the Southern Association of Colleges and Schools. However, certain courses may be used as substitutions or waivers for a specific course in the Athens State University degree program but will not affect the total hours residency required for that degree program. Credit earned through this method will not be used in determining the student's cumulative grade point average.

Admission of Four-Year College Transfer Students
A student who has completed a minimum of the freshman and sophomore years at a regionally accredited four-year institution may be admitted to Athens State University as a transfer student.

Admission of International Students
The International Student Advisor's Office assists the international student in transferring to Athens State University. Services include interpretation of governmental regulations and institutional requirements. Students needing assistance should contact the Associate Dean of Student Affairs office, 233-8171.

To be admitted as an F-1 student, the student should:

1. submit an Application for Admissions to ASU and pay the application fee either by money order or certified check.
2. have 60-64 semester hours or equivalent from a regionally accredited institution
 OR
 course by course evaluation of foreign educational credentials completed by the World Education Services.
3. request official copies of transcripts from all colleges and/or universities they have attended to be sent to the international student advisor. If student is requesting course by course evaluation by the World Education Services, an official copy of their transcript should be sent by W.E.S. to the international student advisor.
4. score a minimum of 500 (written) or 173 (computer) on the TOEFL score.
5. request official copy of student's TOEFL score be sent to the international student advisor.
6. have student's current international student advisor complete a Transfer Clearance form.
7. complete an I-134 Affidavit of Support Form and submit to the international student advisor.
8. provide a $1,500 deposit (money order or certified check) made out to Athens State University to the international student advisor.
9. bring his/her current passport for copying by international student advisor.
10. provide proof of health and life insurance while in the United States.
11. provide a letter from a banking institution on financial status (support), and
12. provide a letter stating planned major at ASU.

Upon receipt of the above items, an I-20 Form will be issued by Athens State University.

ADMISSION OF TRANSIENT STUDENTS

A student wishing to be admitted to Athens State University as a transient student must complete an application for admission and provide the Coordinator of Admissions with (1) a letter of good standing and permission each semester from the instructional officer of the institution in which he or she is currently enrolled, and (2) approval from said official for specific courses to be taken at Athens State University. Upon completion of the course(s), the transient student must make a written request for an official transcript to be mailed to the institution in which he or she is enrolled. An international student must have a transfer clearance sheet from his/her current foreign student advisor. Students enrolled as transient are not classified as "regular" students. As defined by the U. S. Department of Education, transient students are not eligible to receive federal aid funding under Title IV.

ADMISSION OF SECOND DEGREE-SEEKING STUDENTS

Students who seek a second degree must meet all admission requirements, complete all catalog requirements for the major in that degree, and must complete a minimum of thirty-three semester hours in residency at Athens State University beyond the conferral date of the first degree. No student may secure two degrees within the same graduation period.

ADMISSION OF FORMER STUDENTS IN GOOD STANDING

A student who has previously attended Athens State University and is currently in good standing, including students returning after an absence of only one semester, can be readmitted automatically. The returning student may complete an reapplication form to update personal information, but no additional application fee will be charged.

If the returning student plans to seek a degree from Athens State University and has attended another college or university during his or her absence from the University, official transcripts must be mailed directly from the college or university attended to the Admissions Office, Athens State University, 300 North Beaty Street, Athens, Alabama 35611.

ADMISSION OF STUDENTS ON PROBATIONARY STATUS FROM OTHER INSTITUTIONS

A student on probationary status from another institution who wishes to attend Athens State University must provide official transcripts from all colleges or universities previously attended. These transcripts will be reviewed to determine admissibility. For further information contact the Coordinator of Admissions at (256) 233-8217.

A transfer student who is admitted with a cumulative GPA of less than 2.0 will be admitted on Academic Probation. If, at the conclusion of the semester in which the transfer student admitted on Probation has attempted a total of 12 semester hours at ASU, and the Cumulative GPA at ASU is 2.0 or above, the student's status is "clear."

If, at the conclusion of the semester in which the transfer student admitted on Probation has attempted a total of 12 semester hours at ASU, and the semester GPA at ASU is 2.0 or above, but the Cumulative GPA is less than 2.0, the student will remain on Academic Probation.

If, at the conclusion of the semester in which the transfer student admitted on Probation has attempted a total of 12 semester hours at ASU, and the semester GPA at ASU is less than 2.0, the student is suspended for one semester. The transcript will read SUSPENDED - ONE SEMESTER.

A student who has been suspended indefinitely from another institution during the current academic year will not be permitted to enter Athens State University. However, the student who has been out of school for more than one year after being suspended indefinitely by another institution will be considered for admissions.

ADMISSION OF NON-DEGREE SEEKING STUDENTS

A student who has not completed the required number of credit hours to be accepted as a regular degree-seeking student and who wishes to pursue a limited objective may be admitted to Athens State University as a non-degree-seeking student. Non-degree seeking students should not circumvent attendance at the community/junior/technical college. Such a student should report directly to the Office of Admissions for permission to enter. Records are kept of the work completed and credits are transferable. The non-degree seeking student is restricted to a maximum of six semester hours per term. The non-degree seeking student is ineligible for financial aid, veteran's benefits, or federal aid funding under Title IV.

Limited Objectives:

Auditing - Any individual may elect to attend classes at Athens State University on an audit basis, provided he or she has completed an application for admission. Credit is not awarded for audited classes. Audited courses will be allowed on a space available basis. No change from audit to credit is allowed. A student who is currently attending high school or who has not earned a high school diploma or equivalent may only audit courses at Athens State University.

Personal Enrichment - A person who wishes to attend Athens State University for personal enrichment or self-improvement will be limited to six semester hours per term with credit recorded as for a regular degree-seeking student. This student will be admitted as a special non-degree seeking student and is required to furnish official transcripts from colleges or universities previously attended by the end of the first term.

Teacher Certification - A student holding a degree from another institution and taking courses at Athens State University for teacher certification purposes is required to submit one copy of all official transcripts from each institution previously attended. These transcripts are not evaluated or recorded but are used in determining teacher certification requirements. (See Teacher Education Program.)

TRANSFERABILITY AND APPLICABILITY OF COLLEGE CREDIT WITHIN THE UNIVERSITY

Transferability refers to the condition under which the University accepts credits from other postsecondary institutions for inclusion in the student's records. Such course work must be relevant to the degree the student is seeking and will be evaluated as to content and level of instruction resulting in student competencies at least equivalent to those of students enrolled at Athens State University.

Applicability of credit toward a degree refers to the prerogative of the School to count specific credit toward the fulfillment of a student's degree requirements.

STANDARDS OF ACADEMIC PROGRESS

The Athens State University policy for satisfactory academic progress is designed to assist the student in meeting and maintaining a level of achievement that will assure reasonable progress toward graduation. All students should be aware that a cumulative minimum grade point average of 2.0 on a 4.0 scale is required for graduation in all Schools except the School of Education (graduates must have a 2.75--see School of Education guidelines for specifics and the School of Arts and Sciences graduates must have a 2.5 GPA in the appropriate majors). Students with probationary status at Athens State University cannot receive permission to take coursework from another institution. Credit earned at another institution may not be used to clear probationary status at Athens State University.

An academic review of each student's record occurs at the completion of each term. When a student is placed on a status of probation or suspension, University officials may provide intervention for the student by taking steps including but not limited to, imposing maximum course loads and/or prescribing specific courses. Any student who was admitted on "clear" status and whose grade point average at Athens State University falls below 2.0 is immediately placed on academic probation.

Suspended--One Semester

A student whose subsequent grades in the next term do not meet the required 2.0 will be placed on One Term Academic Suspension. The transcript will read SUSPENDED--ONE SEMESTER.

Suspended--One Semester/Readmitted

A student who is suspended for one semester may appeal to the Admissions Committee. If, after appeal, the student is readmitted without serving the one semester suspension, the transcript will read SUSPENDED--ONE SEMESTER/READMITTED UPON APPEAL.

Appeal Process: If a student declares no contest of the facts leading to suspension but simply wishes to request consideration for readmission, the student may submit a request in writing for a "appeal for readmission" to the Admissions Committee within a designated, published number of days of receipt of the notice of suspension. During the meeting of the Admissions' Committee, which shall not be considered a "due process" hearing but rather a petition for readmission, the student shall be given an opportunity to present a rationale and/or statement of mitigating circumstances in support of immediate readmission. The decision of the Admissions Committee, together with the materials presented by the student, shall be placed in the college's official records. Additionally, a copy of the written decision shall be provided to the student. Equity, reasonability, and consistency shall be the standards by which such decisions are measured. Students will be notified in writing of the decision with 10 instructional days after receipt of the request for appeal. All requests for appeals must be received within 5 instructional days following receipt of notice of suspension.

Suspended--One Year

The student who is readmitted upon appeal reenters the institution upon Academic Probation. A student on Academic Probation after being suspended for one semester (whether the student has served the suspension or has been readmitted upon appeal) and who does not achieve a 2.0 at Athens State University in the subsequent semester will be placed on One Year Academic Suspension. The transcript will read SUSPENDED--ONE YEAR.

Suspended--One Year/Readmitted Upon Appeal

The student who is suspended for one year may appeal to the Admissions Committee. If, after appeal, the student is readmitted without serving the one year suspension, the transcript will read SUSPENDED--ONE YEAR/READMITTED UPON APPEAL.

Academic Probation

A student with less than a 2.0 GPA may petition the Admissions Committee to be admitted on Academic Probation. A student who is admitted by appeal and placed on academic probation (less than a 2.0 GPA) must secure at least a 2.0 grade point average on all courses attempted at Athens State University. The student will have twelve (12) semester hours to bring the cumulative GPA to 2.0 (average of all grades secured from transfer hours and Athens State University hours). Failure to secure a 2.0 will result in the student being suspended for one semester. The transcript will read SUSPENDED-ONE SEMESTER.

Academic Bankruptcy

According to State Board Policy, a student may request in writing to the registrar to declare academic bankruptcy under the following conditions:

a. If fewer than three calendar years have elapsed since the semester for which the student wishes to declare bankruptcy, the student may declare academic bankruptcy on all coursework taken during that one semester provided the student has taken a minimum of 18 semester credit hours of coursework at the institution since the bankruptcy semester occurred. All coursework taken, even hours completed satisfactorily, during the semester for which academic bankruptcy is declared will be disregarded in the cumulative grade point average.

b. If three or more calendar years have elapsed since the most recent semester for which the student wishes to declare bankruptcy, the student may declare academic bankruptcy on all coursework taken during 1-3 semesters provided the student has taken a minimum of 18 semester credit hours of coursework at the institution since the bankruptcy semester occurred. All coursework taken, even hours completed satisfactorily, during the semester(s) for which academic bankruptcy is declared will be disregarded in the cumulative grade point average.

When academic bankruptcy is declared the term "ACADEMIC BANKRUPTCY" will be reflected on the transcript for each semester affected. When academic bankruptcy is declared, the transcript will reflect the semester of its implementation and the transcript will be stamped "ACADEMIC BANKRUPTCY IMPLEMENTED." A student may declare academic bankruptcy only once.

Implementation of academic bankruptcy at an institution does not guarantee that other institutions will approve such action. This determination will be made by the respective transfer institutions.

FINANCIAL INFORMATION

Athens State University is committed to providing a quality educational program at the lowest possible cost. Therefore, Athens State University is especially committed to a professional and businesslike approach in the management of its financial resources.

TUITION

Tuition and fees are subject to change at any point of time, subject to approval of the Alabama State Board of Education.

Alabama Residents

The Alabama resident tuition is ninety-five dollars ($95.00) per semester hour for 2002-2003. Payment due dates are posted in the schedule. No student will be allowed to defer payments.

Out-of-State and Foreign Students

The out-of-state residents or non-U.S. citizens who do not meet Alabama residence requirements tuition is one hundred ninety dollars ($190.00) per semester hour for 2002-2003.

HOUSING

Dormitory rooms are available through the Housing Office. The cost for a double occupancy room is four hundred and fifty dollars ($450.00) per semester or summer term). A limited number of single occupancy rooms are available at a cost of five hundred and fifteen dollars ($515.00) per semester or summer term. See schedule for payment due date. A one time only seventy-five-dollars ($75.00) damage deposit is required from each student, payable upon acceptance of the student as a dormitory resident. Checks are to be made payable to Athens State University.

2002-2003 SCHEDULE OF FEES

Application Fee	$ 30.00
Teaching Internship	$ 80.00
Lab Fee (as specified per course)	$ 53.00
Off Campus Course Fee (excluding Redstone) (per course)	$ 35.00
Late Registration Fee	$ 25.00
Drop Fee per course change	$ 5.00
Transcript of Grades (after first request)	$ 5.00
Graduation Fee	$ 50.00
Late graduation application fee	$ 25.00
Diploma reorder	$ 13.00
Auditing Fee per hour	1/2 of current tuition rate
Key Deposit	$ 2.00
Returned Check Fee	$ 28.00
I.D. Card (picture)	$ 5.00
Dormitory Deposit	$ 75.00
International Student Deposit	$ 1,500.00
Graduation Reapplication Fee	$ 13.00
Student parking	$ 10.00
Replacement Diploma	$ 25.00
Facilities Renewal Fee	$3.00/semester hour
Technology Fee	$5.00/semester hour

REFUNDS

The current Refund Policy is as follows. The current semester schedule should be consulted for any changes.

The Refund Policy 803.02 stated below became effective 09-26-96. It is not an institutional policy but is mandated by the Alabama Department of Postsecondary Education for all colleges and universities under its control. Athens State University is under the control of Alabama Department of Postsecondary Education and must comply with this policy.

1.1 Refund for Complete Withdrawal

A student who officially or unofficially withdraws from all classes before the first day of the semester will be refunded the total tuition and other institutional charges.

A student who officially or unofficially withdraws completely on or after the first official day of the semester but prior to the end of the third week of class will be refunded according to the withdrawal date as follows:

Prior to the first day of the semester:
100% refund for any and all classes dropped

1st week of the semester (drop/add period)
Partial withdrawal - 100% refund, less 5% administration fee.
Complete withdrawal - 75% refund, less 5% administration fee.

2nd Week of the semester:
Partial withdrawal - NO REFUNDS DUE.
Complete withdrawal - 50% refund, less 5% administration fee.

3rd Week of the semester:
Partial withdrawal - NO REFUNDS DUE.
Complete withdrawal - 25% refund, less 5% administration fee.

After the 3rd week of the semester - NO REFUND DUE.

IMPORTANT: Refunds are calculated based upon the status of enrollment at the end of the third week of the semester. The first day of class is defined as the day the semester begins, not necessarily a student's first class meeting date. There is only one "**FIRST DAY**" per semester. All refund checks will be mailed within six weeks from the first day of the semester.

1.2 Administrative Fee
An administrative fee not to exceed 5% of tuition and other institutional charges or $100, whichever is smaller, shall be assessed for each withdrawal within the period beginning the first day of class and ending at the end of the third week of class.

2.1 Refund for Partial Withdrawal
Students who do not completely withdraw from the University but drop a class during the regular drop/add period will be refunded the difference in tuition paid and the tuition rate applicable to the reduced number of hours, including fees appropriate to the classes dropped. There is no refund due to a student who partially withdraws after the official drop/add period.

3.1 Refund in Compliance With Federal Regulations
All colleges shall comply with federal regulations relative to refund of tuition and other institutional charges for Title IV recipients (Other institutional charges (PELL, SEOG, loans).

4.1 Refund for Alabama National Guard and Reservists Called to Active Duty
Students who are active members of the Alabama National Guard or reservists or who are active duty military who are called to active duty in the time of national crisis shall receive a full tuition refund at the time of withdrawal, if such student is unable to complete the term due to active duty orders or assignment to another location.

REFUND POLICY FOR STUDENTS RECEIVING FEDERAL TITLE IV AID

Effective Fall Semester 2000-2001: The federal refund regulations require Financial Aid Students receiving Pell Grant, Federal Supplemental Education Opportunity Grant or Federal Direct Loans, and withdrawing from all of his or her classes prior to the 60% point in the term, to immediately repay unearned federal aid dollars to the program providing those funds. The following formula is used to compute aid to be returned:

Days Enrolled / Days inTerm x Title IV Aid Awarded and Disbursed = Aid Earned

Aid Disbursed - Aid Earned = Aid to be Returned

Order of Funds to Return -
Unsubsidized Loans (per promissory note terms)
Subsidized Loans (per promissory note terms)
Pell Grant *50%
FSEOG

This policy does not limit the Refund Policy mandated by the Alabama Department of Postsecondary Education.

OTHER REFUND POLICIES

Weekend, short-terms and special one week classes will receive a 100% refund if dropped prior to the first day of the start of the semester.
Dormitory room costs are prorated weekly. Any part of a week shall constitute a full week. In unusual circumstances such as illness or official government orders, **students may petition the Dean of Student Affairs for special consideration**. Examples of refunds are available upon written request to the Student Financial Services Office.

RETURNED CHECKS

Returned checks cannot be redeposited by the Office of Financial Affairs. Checks for tuition will be charged a $28.00 returned check fee plus a $10.00 fee for reprocessing the registration. Unpaid checks will be turned over to the District Attorney's Office ten days after notification. After the second returned check, the Office of Financial Affairs WILL NOT accept a personal check for tuition payment. Payment must be made with cash, money order, credit card, or cashier's check.

GRADES/TRANSCRIPTS WITHHELD

A student failing to meet his or her financial obligations to the University may have his or her semester grade report, transcript and all other academic transactions withheld until such obligations are cleared through the Business Office. Such obligations include unpaid fees, overdue library books, damaged or unreturned University equipment, dormitory damage, unpaid student loans, and parking fees. A student may be withdrawn from classes and not permitted to register until financial obligations have been cleared.

The Student Financial Services Office of Athens State University is located in the Classroom Building, first floor, east entrance. Phone: 1-800-522-0272, ext. 170, or 233-8170, or 233-8122. FAX: 233-8128.

TAX FORMS 1098-T

Tax Forms 1098-T are mailed by the due date as required by the Internal Revenue Service.

SCHOLARSHIP PROGRAMS

INSTITUTIONAL SCHOLARSHIP PROGRAMS

Academic Scholarships-Awarded on outstanding academic achievement, 3.5 grade point average minimum required. The deadline for application submissions is the close of the last business day (4:30 p.m.) in February for awards in the following academic year. Approximately 30 new awards for each academic year. In addition, program enhancement scholarships are awarded. (download application@http://www.athens.edu/financialaid/institution__scholarships.shtml

Student Activities Leadership Scholarships—Demonstrated leadership qualities through clubs and organizations at transfer institution, grade point average minimum of 3.0; must participate in activities of Athens State University. The deadline for application submissions is the close of the last business day (4:30 p.m.) in February. Applications are available in the Student Activities office.

The Dottie and J.J. Donahue SGA President's Scholarship—Awarded to the president of SGA, $150 per semester for Fall, and Spring semesters.

Athletic Scholarships—Scholarships may be offered in the areas of men's basketball and women's softball to students who demonstrate outstanding athletic ability. For further information on men's basketball contact the men's basketball coach. For information on women's softball contact the women's softball coach.

Cheerleader Scholarships—Scholarships are available for Athens State University cheerleaders and mascot. The recipient must have a grade point average of 2.5 and maintain a 2.0 average. See the Coordinator of Student Activities for additional information.

The Athenian Scholarship—3/4's tuition for three semesters is awarded to the editor of the University newspaper. This scholarship is contingent upon the student satisfactorily fulfilling the requirements of the position and maintaining a 3.0 GPA. Partial scholarships are available for two assistant editors, contingent upon the student fulfilling the requirements of the position and maintaining a 3.0 Grade Point Average. Applicants must contact the Coordinator of Student Activities.

ALUMNI SCHOLARSHIPS

The Athens State University Alumni Association offers the following scholarships:

Alumni Vanity Tag Scholarship
Mary Norman Moore McCoy Scholarship
Leovis and Carlton D. Whitt Scholarship
Geraldine Whitt Alumni Scholarship

Applications are available in the Alumni Office, the Financial Aid Office or through the University's website at www.athens.edu on or after January 15 each year. **The deadline for application submissions is the close of the last business day (4:30 p.m.) in February.** For more information on these scholarships please call (256) 233-8275.For more information on these scholarships contact the Alumni Office in Founders Hall (233-8275) or download@http://www.athens.edu/financialaid/institution__scholarships.shtml

SENIOR ADULT SCHOLARSHIP PROGRAM

This program allows any student 60 years or older (meeting admissions requirements) to receive a tuition waiver for college credit courses on a space available basis only. Space available basis requires registration during the late registration process.

ASU FOUNDATION SCHOLARSHIP PROGRAMS

The Athens State University Foundation has numerous scholarships available. Applications are available in the Foundation Office in Brown Hall, the Financial Aid Office or through the University's website at www.athens.edu on or after January 15 of each year. **The deadline for application submissions is the close of the last business day (4:30 p.m.) in February.** For more information on these scholarships please contact the Foundation Office in Brown Hall at (256) 233-8215.

Darryl Allen Allfrey Memorial Scholarship
AmSouth Bank Scholarship
Athens-Limestone Hospital Scholarship
Athens State University Foundation Scholarship
J. E. Beasley, Jr. Memorial Scholarship
Coach Oba Belcher Memorial Scholarship
Edward Burgreen Memorial Scholarship
James and Melba Chasteen Scholarship
Chittam Scholarship
Jane Mitchell Coffman Scholarship
Compass Bank Scholarship
Mary Corum Scholarship
Dekle Scholarship
Group DEKKO Scholarship
Martin W. "Buddy" Evans Scholarship
Robert McCall Scholarship, Delta Mu Delta
Founders Memorial Scholarship
Glasgow Scholarship
The Hemingway Accounting Scholarship
Herman Griffin Memorial Scholarship
Daniel-Hightower Memorial Scholarship
Hobbs/Horton Memorial Scholarship
Ena Johnson Kennedy Scholarship
Dan Jones Memorial Scholarship
Martin Scholarship
John C. Maund Memorial Scholarship
John D. and Michael Maund Scholarship
Terry McCormick Scholarship
Acton E. Middlebrooks Memorial Scholarship
Harry Miller Memorial Scholarship
George B. & Ruby Murphy Memorial Scholarship
National Management Association Scholarship
Julia Woodroof Nelson Memorial Scholarship
Mayme Pitts Boys & Girls Ranch Memorial Scholarship
Randy York Memorial Scholarship
Redstone Federal Credit Union Scholarship
Harold Smith Memorial Scholarship
Stanford Memorial Scholarship
Steelcase Scholarships
TVOTFC Association Scholarships
TVOTFC - The Gayle Davis Scholarship
TVOTFC - T. A. Hudson Memorial Scholarship
TVOTFC - Jodie Hall Memorial Scholarship
TVOTFC - Joe Gambill Memorial Scholarship
TVOTFC - Bill Harrison Memorial Scholarship
TVOTFC - The Bill Sandlin Scholarship
TVOTFC - Ewell P. Smith Scholarship
Weems Scholarship
3M Scholarship

FINANCIAL AID

The Student Financial Services Office of Athens State University is located in the Classroom Building, Suite 105, first floor, East entrance. Phone: 1-800-522-0272, ext. 170, or 233-8170, or 233-8122.

The Student Financial Services Office has two major objectives:

1. To supplement the efforts of the student and parents of the student in meeting educational costs.
2. To provide financial aid to students who would be unable to attend this institution without such assistance.

Athens State University provides this aid through various federal, state, and private sources.

HOW TO APPLY

The first step in applying for aid at Athens State University is to submit the Free Application for Federal Student Aid to one of the approved processors on the application form. Applications for the 2001-2002 academic year are accepted between January 1, 2001 and July 1, 2002 only. **THE STUDENT MUST REAPPLY FOR AID EACH YEAR.** This application and resulting analysis is the basis for all federally funded student aid programs and for all need-based programs at Athens State University. Each applicant will receive a Student Aid Report (SAR) from the processor. Some applicants are selected by the federal government for a process of verification. Verification requires completion of an additional worksheet and supporting documentation.

Students may apply electronically for aid at no cost by one of the following methods:

U.S. Department of Education Application WebSite Internet address: **www.fafsa.ed.gov**

Order an application diskette from the U.S. Department of Education 1-800-801-0576 or at an Education Opportunity Center. Contact the Financial Aid Office for a location near you. Central Office for EOC - 722-9632.

A Cost of Education will be determined for each student based on full-time tuition and fees, room and board estimates, books, supplies, transportation and miscellaneous expenses. Dependent care expenses, and disability expenses related to study not covered by an assisting agency may be documented to the Financial Aid Office for inclusion as well. Cost of Education budgets are available in the Student Financial Services Office.

In determining aid the University will deduct the Estimated Family Contribution as indicated on the SAR from the Cost of Education. After the need has been computed, the Pell Grant award, if any, will be calculated to determine any remaining need the student may have. Any other resources available to the Student such as VA benefits, Vocational Rehabilitation Benefits, and private Scholarship Funds will also be considered in determining remaining need. Remaining need may be met in a variety of ways. The Student Financial Services Office will determine the precise method on the basis of available funds of the school and the student. Some of the funds generally available are SEOG, Alabama Assistance Grants, federal work study, Scholarships and Loan programs. (See specific guidelines in the Aid Programs Section.)

Pell grant payments will be paid each semester to eligible students who have a completed Financial Aid File. Aid approved by the Student Financial Services Office will automatically be applied on the student schedule during the registration process. Any funds remaining for the semester will be paid directly to the student by check. The Business Office will issue and mail checks.

SATISFACTORY ACADEMIC PROGRESS FOR FIRST DEGREE UNDERGRADUATES

Financial Aid Students working toward a **first undergraduate degree** will be monitored for compliance with Federal Requirements for Satisfactory Academic Progress as outlined below:

- The student must maintain a 2.0 GPA at Athens State University.
- The student must successfully complete 67% of all coursework attempted. All W's, I's, F's and audited coursework count as unsuccessful completions. When unsuccessful completions exceed 33% of all coursework attempted, financial aid will be suspended.
- The student must complete degree requirements within 150% of the usual time-frame for degree completion. Athens State University requires up to 128 semester hours to graduate. Therefore, financial aid will be available for no more than 192 semester hours of credit toward degree requirements. All accepted transfer work will be counted in this calculation. This particular component of the satisfactory academic progress standards may not be appealed as per federal regulations.

Financial aid students working toward **an additional undergraduate degree** will be monitored for compliance with federal requirements for satisfactory academic progress as outlined below:

- The student must maintain a 2.0 GPA at Athens State University.
- The student must successfully complete 67% of all coursework attempted. All W's, I's, F's and audited coursework count as unsuccessful completions. When unsuccessful completions exceed 33% of all coursework attempted, financial aid will be suspended.
- The student must complete additional degree requirements within 130% of the usual time frame for degree completion. Athens State University requires up to an additional 66 semester hours of credit toward degree requirements. However, the maximum hours will be limited by an advisor's plan of study outlining required courses. All accepted transfer work will be counted in this calculation.
- An advisor's plan of study is required to be on file in financial aid for all students pursuing an additional degree.
- The additional undergraduate degree must be one in which Athens State University will award an additional diploma. This may not be an additional major or minor.

Financial Aid Students working toward **a state required certification or certificate program** with a minimum of 24 semester hours will be monitored for compliance with federal requirements for satisfactory academic progress as outlined below:

- The student must maintain a 2.0 GPA at Athens State University.
- The student must successfully complete 67% of all coursework attempted. All W's, I's, F's and audited coursework count as unsuccessful completions. When unsuccessful completions exceed 33% of all coursework attempted, financial aid will be suspended.
- The student must complete certification requirements within 130% of the usual time frame for the certificate completion or for coursework necessary to meet minimum state requirements for employment. Athens State University requires an additional 30 semester hours to earn an accounting certificate and 24 semester hours to earn a computer networking certificate. Therefore, financial aid will be available for no more than 39 semester hours of credit toward the accounting certificate and no more than 30 semester hours toward the computer networking certificate. The advisor's listing will be used to benchmark maximum hours for students pursuing minimum state requirements for employment such as sitting for the CPA and Teacher Certification or recertification. All accepted transfer work will be counted in this calculation.
- An advisor's Plan of Study is required to be on file in Financial Aid for all students pursuing coursework beyond a first undergraduate degree.

Students not meeting the above standards will have financial aid suspended until the requirements are met. Students who lose financial aid must request reinstatement of aid when documentation of the cleared deficiency has been submitted to the Student Financial Services office. Students changing majors will not have additional time allowed for goal accomplishment.

Student Appeals Process:

Students may appeal financial aid suspension in writing to the Director of Student Financial Services. The appeal must clearly state the reasons the student did not achieve the requirements AND the reasons why the aid should not be terminated. Students may appeal the decision of the Director of Student Financial Services, in writing, to the Financial Aid Committee. The Committee will review the appeal and the student will be notified, in writing, when a decision has been reached. The Financial Aid Committee meets near the end of each semester to review appeals.

FINANCIAL AID PROGRAMS

Federal Pell Grant Program

This program is designed to provide financial assistance to persons at the undergraduate level who need funds to attend a post high school educational institution. The actual size of a grant award will depend upon the family's financial situation, the amount of funds actually available for the program each year and the cost of education. For the Pell Grant program, an undergraduate is one who has not earned a bachelor's or first professional degree. Pell Grants provide a "foundation" of financial aid to which aid from other Federal and non-Federal sources may be added. All paperwork must be submitted to the Student Financial Services Office during the period of enrollment for payment. The final academic year deadline is the third week of the summer term.

Federal Supplemental Educational Opportunity Grant

This program has the single purpose of making a University education available to qualified applicants who demonstrate "exceptional financial need." In determining the priority order in which students will be awarded SEOG funds in any given year, Federal regulations require the school to give first consideration to those students with exceptional financial need demonstrated by the Pell Grant recipients with the lowest Expected Family Contribution in that year. This program is for students who have not earned a bachelor's degree or first professional degree.

Federal Work-Study Program

This program is designed to help students pay for part or all of their educational expenses by working part-time on campus, in coordination with their class schedules. This program is available on the basis of need as defined by the student's Pell Grant information. All requirements and conditions for employment under the University Work-Study Program are available in the Student Financial Services Office.

Federal Direct Loan Program

Federal Direct Subsidized Loans—provides students the opportunity to borrow funds for education costs at low interest rates. For students with a defined need, the federal government subsidizes the interest during the certain specified periods.

Federal Direct Unsubsidized Loans—for students with no defined need the federal government provides loan funds with low interest rates, but does not subsidize the interest. Interest accrues to the student while enrolled in school.

Athens State University does not certify loans to or for students on academic probation or for students failing to meet satisfactory academic progress standards as outlined on the preceding section.

STATE PROGRAMS

Alabama Assistance Grant Program

This program is a State/Federal Aid Program designed to provide assistance to residents of the State of Alabama. The program is need based and offers awards based on the Pell need analysis to students with demonstrated "exceptional need."

Eligibility Requirements for Federal Aid Programs

1. U. S. citizen or eligible non-citizen
2. Registered with Selective Service (if required)
3. Working toward a degree or certificate
4. Making satisfactory academic progress
5. Not owe a refund on a federal grant or be in default of a federal educational loan
6. Demonstrate financial need via the application process
7. Not receiving aid at more than one school during the same enrollment period

Student Responsibilities

It is the <u>responsibility</u> of the <u>student</u> to:

1. review and consider all information about a school's program BEFORE enrolling.
2. pay special attention to the application for student financial aid, complete it accurately, and submit it on time to the right place. Errors can delay or prevent receiving aid.
3. know all the deadlines for applying or reapplying for aid and meet them.
4. provide all documentation, corrections, and/or new information requested by either the Student Financial Services Office or the agency to which the application was submitted.

5. notify the university of any information that has changed since application was made for financial aid.
6. read, understand and keep copies of all forms requiring signature.
7. repay any student loans he/she has. When a student signs a promissory note, he/she is agreeing to repay the loan.
8. attend an entrance and exit interview at the university if you have a Federal Direct Student Loan.
9. notify the university of any change in name, address, or attendance status. If a student has a loan, the student must also notify the lender of any changes.
10. satisfactorily perform the work agreed upon, if employed for a federal work-study job.
11. understand the university's refund policy as outlined in this publication.

Student Rights

The **student has the right** to ask a university:

1. for the names of the university's accrediting and licensing organizations.
2. for a copy of the documents describing the institution's accreditation or licensing.
3. about its programs, its instructional, laboratory, and other physical facilities, and its faculty.
4. what the cost of attending is, and what its policy is on refunds to students who drop out.
5. what financial assistance is available, including information on all Federal, state, local, private and institutional financial aid programs.
6. who its financial aid personnel are, where they're located, and how to contact them for information.
7. what the procedures and deadlines are for submitting applications for each available financial aid program.
8. how it selects financial aid recipients.
9. how it determines financial need, including cost of education and resources available.
10. how much of one's need, as determined by the university, had been met.
11. how and when one receives financial aid.
12. to explain each type and amount of assistance in the financial aid package.
13. what the interest rate is on any student loan, the total amount to be repaid, when length of time for repayment and when repayment must start, and what cancellation or deferment provisions apply.
14. if offered a federal work-study job—what kind of job it is, what hours are to be worked, what the duties will be, what the rate of pay will be, and how and when wages will be paid.
15. to reconsider an aid package, if the student believes a mistake has been made, or if enrollment or financial circumstances have changed.
16. how the university determines whether a student is making satisfactory progress, and outcomes of unsatisfactory progress.
17. what special facilities and services are available to persons with disabilities.

STUDENT ACTIVITIES

Athens State University students are strongly encouraged to participate in campus extracurricular activities and to utilize the services provided by the University. Additional detailed information concerning these activities and services, the rules and regulations relative to student conduct, and student rights and responsibilities is found in the Student Handbook.

STUDENT GOVERNMENT ASSOCIATION

All members of the student body belong to the Student Government Association. Officers and organizational representatives are elected annually. The University organizational structure provides for and encourages democratic student involvement in the affairs of the University.

The Student Government Association meets at regular intervals and the meetings are open to all students who wish to observe the proceedings. Every student should feel at liberty to make suggestions to the Student Government Association, to any committee, or to any officer of the University administration.

CLUBS AND ORGANIZATIONS

African-American History Association

The African-American History Association is an organization to increase awareness of African-American contributions to the development of our country by providing the Athens State University community with a social, moral, intellectual and cultural agenda of African-American history and life. The organization was chartered in 1984 and has been a pioneer in the Athens and Limestone County area in observing the National program theme and practices. Membership is open to all administrators, faculty, staff and students of Athens State University. For more information, please contact the Student Support Services or Student Activities Office.

American Institute of Aeronautics and Astronautics (AIAA)

AIAA is an international society of aerospace professionals including engineering, management, technicians, and educators. The goals of AIAA include career development for membership and advancing the cause for the aerospace profession in general. For more information contact the School of Business.

American Production and Inventory Control Society (APICS)

APICS, the educational society for resource management, is an international organization offering a full range of programs and materials on the latest business management concepts and techniques. APICS is open to all students. For information, contact the School of Business.

Art Club

The Athens State University Art Club is to inform students and faculty as well as surrounding areas about the arts and involve them in artistic activities. Membership is open to the public. For additional information, contact the School of Arts and Sciences.

Athenian Hosts/Hostesses

The Athenians are the official names of students who serve as hosts and hostesses for the university. The members also serve as tour guides for campus and university representatives at special community functions. For more information, contact the Student Activities Office.

The Association of Justice Studies Club

Lambda Alpha Epsilon is a student organization for justice studies majors and minors. For information contact the School of Arts and Sciences.

The Association for Supervision and Curriculum Development (ASCD)

The Athens State University ASCD Student Chapter is a campus-based organization for undergraduate students in education. The program encourages preservice and inservice educators to initiate leadership, workshop, and networking opportunities for students at formative stages in their careers. Contact the School of Education.

Campus Ministries/Cross Seekers

Campus Ministries/Cross Seekers is open to all students, faculty, and staff. It is a national organization offered to anyone interested in Christian fellowship, missions, leadership development, Bible study and prayer. For additional information contact the Student Activities Office.

Centurions

The Centurions Club provides educational and social opportunities and is open to all students, faculty, and staff. This organization assists persons with disabilities to gain access in every way and to the extent permitted by law to all facilities and opportunities at Athens State University. Please call the Student Activities Office or the ADA/504 Coordinator.

Council for Exceptional Children (CEC)

The student chapter of the Council for Exceptional Children (CEC) is a professional organization open to students majoring in special education, and is affiliated with both the Alabama and international CEC. Please contact the School of Education.

Delta Mu Delta

Delta Mu Delta is an honor society for accounting, management, human resources management, and management of technology majors. Please contact the School of Business.

Elementary Education Club

The Elementary Education Club is an organization open, but not limited to, all junior and senior, general and special education majors. The purpose of this organization is to provide a network of support and assistance to all members. Members will have opportunities to participate in literary based public service programs. Please contact the School of Education.

Fellowship of Religion and Philosophy Studies (FORPS)

FORPS is a group made up of religion and philosophy, and religion majors, as well as other interested parties which meets once each month. For additional information contact Tony Moyers at 233-8514.

Health and Science Career Club

The Health and Science Career Club is an organization whose purpose is to promote interest in the field of science, to provide educational and training opportunities in the health and science fields, and to provide opportunities for participation in co-operative work and volunteer work in the health and science professions. Membership is open to any Athens State University student or students of any Alabama college or university. For more information contact the School of Arts and Sciences.

The Heritage Reading Council

The Heritage Reading Council is a local affiliate of the Alabama Reading Association and the International Reading Association which promotes literacy and literacy education. The organization is open to preservice teachers, inservice teachers, librarians, administrators, parents, and lay persons interested in reading as a means of learning and as the worthy use of leisure time. The Heritage Reading Council meets five times during the academic year in the ballroom of Athens State University. The meetings feature information about current trends in reading instruction, popular and new book titles, author visits, and activities to promote literacy for preschool through high school-age students. The organization is open to all Athens State University students and encourages their membership. For additional information contact the School of Education.

History Club

The Athens State University History Club provides an opportunity for members to meet with others interested in history for the purpose of discussing history and then recreating it. Feasts, crafts, and courts are examples of activities that take place under the auspices of the History Club. Contact the Student Activities office for additional information.

Institute for Management Accountants (IMA)

Student membership in the Institute of Management Accountants has a three-fold purpose:

1. To introduce management accounting to students planning careers in business,
2. To strengthen the knowledge and commitment of those already on the way to management accounting careers, and
3. To demonstrate how IMA members work together to improve the science of management accounting. IMA membership provides opportunities for students to associate with practicing management accountants; to see how they live, work, and apply their knowledge; and to learn that professionals are seriously devoted to their field and to high ethical standards. To qualify for student membership, one must be a regularly enrolled business student carrying at least 6 semester hours of credit. The Association requires an application in writing, on a prescribed form, endorsed by a faculty member or the Registrar. For additional information contact the School of Business.

InterClub Council

The purpose of the Interclub Council is to promote unification between the clubs and organizations and to act as a judiciary committee for the clubs and organizations. The Interclub Council shall consist of representatives from each club and organization. The Vice President of the SGA shall chair the Interclub Council. For additional information contact the Student Activities office.

International Business Society

The International Business Society is for individuals enrolled at Athens State University who have taken or are presently taking an international course. The purpose of the International Business Society is to support development of a foreign exchange program, to serve as a support group for foreign exchange students, to network as the Tennessee Valley international business community and provide recreational and other activities for members. Contact the School of Business.

Kappa Delta Pi

Kappa Delta Pi is an international education honor society. Students are eligible for consideration when they have accumulated enough credit hours to reach senior status. Students are selected by a committee which evaluates them for outstanding academic achievement, scholarly ideals, and professional promise. Contact the School of Education.

The Mathematics and Computer Science Club (MACS)

The Mathematics and Computer Science (MACS) club is designed to enhance the undergraduate program through visiting lectures, field trips, and student recognition. Open to all students majoring or minoring in mathematics or computer science. For further information contact the School of Arts and Sciences.

Multicultural Club

The Multicultural Club has four beliefs that serve as focal points in the organization's philosophy. These fundamental beliefs are as follows: The first belief is to respect, understand, and appreciate cultural diversity. The second belief is to reduce racism, prejudice, and discrimination through education and communication. The third belief is the equality of all people regardless of race, religion, culture, ethnicity, age, gender or exceptionality. The fourth belief is the increased social awareness of problems associated with minorities and at-risk children. Contact the School of Education.

National Association of Communication System Engineers (NACSE)

The main goal of the Athens Chapter of NACSE is to let the Tennessee Valley area businesses know that the graduates of the Networking Program at Athens State University are quality, skilled professionals who would be an asset to any company's IT staff. For more information about NACSE and the Athens chapter go to www.nacse.com.

Phi Alpha Theta

Phi Alpha Theta is an international honor society in history. Membership is open to students, professors and alumni who have achieved excellence in history. The Alpha Beta Lambda chapter was established at Athens State University in 1984. For additional information about this organization please contact the School of Arts and Sciences.

Physical Education Majors Club

The purpose of this organization is to develop leadership, scholarship and professional awareness in students majoring or minoring in Physical Education at Athens State University. Contact the School of Education.

Pi Tau Chi

A national honorary religious society. Membership is by invitation for outstanding service in religious activities. Requirements for membership are 2.0 GPA, leadership in home, church or community, and participation in activities on campus. For additional information contact the Student Activities Office.

Pre-Law Society

The Pre-Law Society is a club open to all students who have an interest in law or law school. The purpose of the organization is to inform students of opportunities available in the field of law and to help prepare students to enter law school. For additional information please contact the School of Business.

Psi Chi

Psi Chi is a national psychology honor society. Membership is open to students, professors, and alumni who have achieved excellence in psychology. Psi Chi was established at Athens State University in 1985. Contact the School of Arts and Sciences for additional information.

Religious Studies Fellowship

This group is open to anyone with an interest in the study of religion or philosophy. It helps promote the serious study of religion and philosophy. For additional information contact the School of Arts and Sciences.

Sigma Tau Delta

Sigma Tau Delta is the international English honor society. The local chapter, Kappa Zeta, was founded in 1954. Membership in Sigma Tau Delta is open to English majors and minors, language arts majors, and those students maintaining a "B" average who support the humanities. The local chapter sponsors many campus events which include a professional dinner theatre, a "Come as Literary Character" halloween party, an authentic medieval feast, and an annual writers' conference. Kappa Zeta also awards a $400 scholarship twice a year to a deserving member. The Gyre, the campus literary magazine, is under the sponsorship of Sigma Tau Delta. Contact the English Department for further information.

Society for Human Resource Management (SHRM)

The Society for Human Resource Management (SHRM) is the leading voice of the HR profession. It has over 70,000 professional and student members in more than 425 professional chapters and over 300 student chapters. The North Alabama student chapter consists of students from Athens State University, Alabama A&M University, and the University of Alabama in Huntsville. As a member of the local chapter, you will gain access to an immense information resource and have opportunities to meet HR practitioners to develop your personal contacts and network. With the award winning SHRM publications, you can keep current on issues and trends affecting the workforce and shaping the workplace. As a student member you are eligible and strongly encouraged to attend the Huntsville and Decatur monthly professional meetings. You will meet and interact with HR practitioners representing most of the employers in the greater Huntsville area. And according to research, 60% to 70% of jobs are found through personal contacts, or networking. Contact the School of Business for additional information.

Sociology/Behavioral Science Club

The mission of the Sociology/Behavioral Science Club is to acquaint individuals with the behavioral sciences including sociology and psychology, to encourage professional networking and collegiality, and to make significant contributions to the surrounding community via volunteerism and fund raising. Membership is open to all students interested in the behavioral sciences. For additional information contact the School of Arts and Sciences, Department of Behavioral Science.

Student Alabama Education Association (SAEA).

The Athens State University Student Alabama Education Association, or the Athens State University SAEA, is an organization which offers opportunities for developing personal growth, supportive friendships, and insurance. This organization was designed for all students enrolled in the Athens State University School of Education. Contact the School of Education for additional information.

The Society of Physics Students (SPS)

The Society of Physics Students is a professional physics association explicitly designed for students. Membership is open to any student interested in physics. The Society promotes interest in physics through lectures, discussions, and field trips. For additional information contact the School of Arts and Sciences.

STUDENT PUBLICATIONS

The Athenian, the University newspaper, provides an opportunity for students to develop in the field of journalism and to express themselves on campus issues. There are scholarships available for the assistants and editor positions. Please feel free to submit articles to the paper for publication. Check with **The Athenian** office in Student Activities for deadline dates and office hours.

The Gyre is an annual student publication which gives the student an outlet for creative writing. All stories and poems are student written.

INSTITUTIONAL PUBLICATIONS

The Column is a presidential newsletter published three times a year.

The Career Information Network is a semi-annual newsletter from the Counseling and Career Services Office.

Reflections is an annual newsletter published by the School of Arts and Sciences.

Strictly Business is a semi-annual newsletter published by the School of Business.

Teaching Etc. is an annual newsletter published by the School of Education.

INTERCOLLEGIATE ATHLETICS

Athens State University is a member of the National Association of Intercollegiate Athletics and competes in the Southeast Region as an independent in women's fastpitch softball and men's basketball.

COUNSELING AND CAREER SERVICES

Counseling and Career Services is located in Room 230, upper floor of the Sandridge Student Center and includes: Counseling, Career Services, Cooperative Education, Student Employment Services, and Services for Students with Disabilities. Appointments may be made by calling 233-8285 between 8:00 a.m. and 4:30 p.m., Monday through Friday; other hours by appointment only. The office website is www.athens.edu/counseling/ccs.htm.

Counseling

The purpose of counseling is to assist students, as unique individuals, to cope with personal, social, career and educational issues as they pursue their academic goal. Counseling is provided through one-on-one counseling interviews, using assessment instruments, when appropriate, to promote self understanding and self management. All counseling services are confidential. A licensed professional counselor is available.

Career counseling is provided to assist students with the following: deciding upon and selecting a major field of study; measuring interests, abilities and values through assessment instruments in relation to selecting a career goal; and, providing job search information and resources related to making the transition from the University to full-time professional employment. Resources available include a career library, graduate school information, and employer information.

Career Services

Career Services includes an information center which emphasizes job search skill development and promotes employment opportunities for currently enrolled students and alumni. It is the aim of the Career Services Office to assist the student in making sound career choices and at the same time provide employers with well-qualified candidates. Career Services is intended to support the student's job search. Career Services provides information on employers and employment opportunities, resource materials, individual appointments, interview opportunities and seminars on job search topics and techniques. Career Services does not function as a placement agency, and cannot guarantee employment. The job search is ultimately the candidate's responsibility. Students are encouraged to use the career services available to maximize employment opportunities upon graduation.

Student Employment (JLD) is a program referring currently enrolled students to part-time job positions available in North Alabama. Nine job bulletin boards, which are updated bi-weekly, are located outside the Career Services Office (second floor of the Student Center), in Chasteen Hall, Founder's Hall, Waters Hall, in the Library, in the Classroom Building, Carter P.E. Building, Sanders Hall Dormitory, and in the west wing of McCain Hall.

Professional Referral Services will establish a credentials file for each graduating student, and refer job candidates to employers who make requests for qualified candidates. A credentials file consists of a registration form, signed authorization form and five copies of a resume. Education majors are additionally required to submit an unofficial transcript and three recommendations. Students are encouraged to register in Career Services at least nine months before graduation. Students are encouraged to register on-line for a job at www.athens.edu/counseling/ccs.htm. A newsletter is sent to all registrants to keep them informed of career opportunities and resources.

Job Search Assistance is also available on an individual basis by appointment. Seminars on resume writing, interview skills, and job search skill development are offered serveral times throughout the year.

Information on graduate school programs is available through the Career Services Office. A Graduate School Information Day with national universities is scheduled in Huntsville each October. Also, local graduate schools are invited to participate in the Graduation Expo held on campus twice a year.

Students and alumni are invited to participate in the North Alabama College Placement Employment Day (NACPED) scheduled in Huntsville each February. This event began in 1985 and annually attracts over 100 employers seeking liberal arts, science, computer science, behavioral science, business and education graduates. A Career Expo is also held each October on campus.

Teacher's Expo
A Teacher's Expo with local school systems is held at the end of the spring semester on campus.

Cooperative Education

The Cooperative Education Program is designed to give students the opportunity to integrate their classroom study with practical work experience in their major field. Both alternating and parallel plans are available. A combination of Cooperative Education credit hours earned in CP 301-308, CP 401-406, will not exceed eight semester hours of elective credit toward graduation (See Cooperative Education Course Descriptions.)

Cooperative Education Parallel/Alternating/Special Arranged Plans

The Parallel Plan is a series of courses in which students are engaged in a work situation directly related to their academic major and attend classes concurrently. The parallel plan requires that the student work part-time (usually 20-25 hrs/week) while attending University classes full time. (One semester hour of elective credit is earned for the parallel plan.)

The Alternating Plan is a series of courses in which students are engaged in full-time study for one semester, then switch to full-time employment (forty hours per week) directly related to their academic major for the following semester. (Two semester hours of elective credit are earned each work semester for the alternating plan.)

The Special Arranged Plan allows the student who does not qualify under the guidelines for Parallel/Alternating Plans to work and attend classes in the cooperative education setting and is approved on a semester-by-semester basis. (One semester hour of elective credit is earned for the special arranged plan.)

Eligibility:

All students who have chosen a major field of study and completed at least six semester hours at Athens State University are eligible provided they meet the following criteria:

1. Student must be in good standing and must have and maintain an overall GPA of 2.5.
2. Student must intend to fulfill the requirements of the Co-Op Program and be a prospective candidate for graduation at Athens State University.

Application:

Students should apply as soon as they are considered as a degree-seeking student by the University and enrolled in a minimum of six semester hours.

Procedure:

1. Complete a "Cooperative Education Application"
2. Provide a copy of the latest unofficial college transcript, a current resume, and one letter of recommendation.
3. Arrange for a preliminary interview with a member of the Cooperative Education staff to discuss career goals and preferred work assignments.
4. The Cooperative Education Office will nominate qualified students to employers based on employer requests and requirements.

Grading:

A grade of pass or fail will be based on the employer's evaluation of the student's acquired knowledge and skills, the student's work report evaluation, class attendance, and the quality of term paper(s) submitted by the student.

Services for Students With Disabilities

Athens State University fully supports and complies with the Americans With Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973. The staff and faculty endeavor to provide students an opportunity for success with as few deterrents as possible, strive to create a welcoming environment, and will work in good faith to meet the needs of all populations. Counseling Services provides individual assistance for students with disabilities: assistance with registration, counseling, auxiliary equipment, books on tape, assistance locating note takers and readers, classroom accommodations, and liaison with faculty, Admissions, Financial Aid, Housing, and community resources.

Students with disabilities are encouraged to visit campus the semester prior to enrollment to provide written documentation and to discuss any needs which they may have. Appointments may be made by calling 233-8285; TDD: 256-233-1127. The office is located in Room 230 on the second floor of the Sandridge Student Center and is open Monday-Friday, 8:00 a.m. to 4:30 p.m. The ADA/504 Coordinator is Maureen J. Chemsak, Director of Counseling and Career Services.

VETERANS' AFFAIRS

The Veterans' Educational Assistance Program at Athens State University is based on the rules, regulations, policies and procedures of the Veterans' Administration and as such is subject to change without notice. Current information concerning pay scales and a veterans handbook is available in the Office of Veterans' Affairs, second floor of the Sandridge Student Center, 233-8124.

Veterans Educational Assistance Programs:

Montgomery G.I. Bill - Active Duty Educational Assistance Program (Chapter 30 of Title 38, U. S. Code).

Vietnam Era Veterans' Educational Assistance Program (Chapter 34 of Title 38, U. S. Code).

Montgomery G.I. Bill - Selected Reserve Educational Assistance Program (Chapter 1606, formerly Chapter 106, of Title 10, U. S. Code).

Post-Vietnam Veterans (VEAP) Educational Assistance Program (Chapter 32 of Title 38, U. S. Code).

Vocational Rehabilitation - Chapter 31
This program provides educational assistance to disabled veterans who are in need of vocational rehabilitation. To be eligible a veteran must have a service-connected disability entitling him/her to these benefits. An award authorization must be received by the Office of Veterans' Affairs before benefits can be used.

Survivors' and Dependents' Educational Assistance Program (Chapter 35 of Title 38, U. S. Code).
Paperwork for state benefits (tuition, fees, books) should be processed through the Business Office. Paperwork for federal benefits (monthly checks) should be processed through the Office of Veterans' Affairs.

Selection of Program
In consultation with an admissions counselor or an academic advisor, each veteran student must select and plan a program in accordance with the Athens State University catalog. Assistance in determining a course of study or a change of program will be furnished by the Veterans' Affairs Office with concurrence of an academic advisor.

Course Load
A full-time course load for a student receiving veterans' benefits is twelve semester hours or more for fall and spring semesters; a three-quarter time load is nine semester hours, a one-half time load is six semester hours. Summer term for a full time student is 7 semester hours or more and three-quarter time load is six semester hours. Less than six semester hours is considered less than one-half time. Current VA regulations apply for all short term courses which do not satisfy the minimum amount of contact hours per week, regardless of the amount of credit hours earned for such courses. For complete information regarding "short term courses" contact the Office of Veterans' Affairs.

Repeated Courses for Veterans Receiving Educational Benefits
If a veteran fails a required course, he/she may repeat that course with pay. However, he/she cannot repeat a course just to improve a grade and receive payment through the Veterans Administration. (See also Repeated Courses).

Standards of Progress
The following standards must be met in order for veterans or other eligible persons to receive VA benefits:
1. Grading system as required by the academic standards of the university,
2. Satisfactory grade level as required by the academic standards of the university,
3. Probation and probationary periods as required by the academic standards of the university,
4. Conditions for dismissal, suspension, and readmission as required by the academic standards of the university, and,
5. Satisfactory student conduct as required by the rules and regulations of the university.

Withdrawal Policy
Students who receive veterans' benefits must notify the Office of Veterans' Affairs when dropping or adding a course or when withdrawing. Each withdrawal or drop resulting in a reduction in the course load must show the effective date of the change and the reason for the change. The withdrawal policies of the university also apply.

Veteran Payments and Responsibilities

Receipt of Checks A student who completes an application or Change of Place of Training Form at the beginning of the semester should expect a VA processing period of about six weeks. If the estimated time has elapsed and a check has not arrived, the student should contact the Office of Veterans' Affairs immediately and, if the case warrants, an inquiry will be made to the Regional Office.

Payment Since Athens State University does not participate in the advance payment plan for veterans, tuition and fees must be paid in full by the published payment date (except for those veterans receiving Vocational Rehabilitation). Veterans receiving Vocational Rehabilitation are eligible to register without payment of tuition and fees providing that an award authorization letter has been received prior to the registration period.

Overpayments Each veteran drawing benefits should be aware that it is his or her responsibility to comply strictly with the policies and procedures which govern the receipt of educational benefits. Any overpayment created through non-compliance with veterans' policies is subject to repayment, and such overpayment can cause a delay in the payment of further benefits.

Responsibilities It is the responsibility of the veteran and dependents receiving VA benefits to notify the Office of Veterans' Affairs of the following:

1. Major change
2. Prospective graduation date
3. Changes (Drop and/or adds, credit level, major or dependency status)
4. Submit a copy of each semester's schedule.

Other Types of Assistance

Work Study Program
To be eligible for work-study, a veteran must be enrolled at least 3/4 time and must be receiving V.A. educational benefits. Preference is given to disabled veterans. Payment for the work performed is at the prevailing minimum hourly wage rate in addition to the usual subsistence allotment. There are a limited number of positions for VA work-study at Athens State University.

Tutorial Assistance Program Veterans enrolled on a half-time or greater basis may receive a special allowance for individual tutoring. To qualify, the veteran must demonstrate deficiency in a subject making tutoring necessary. Each tutor's qualifications must be reviewed and approved by the Office of Veterans' Affairs. It is the student's responsibility to secure a tutor. The tutor may be anyone except a family member.

ACADEMIC POLICIES AND PROCEDURES

DEGREE OPTIONS

Athens State University offers four baccalaureate degree options: the Bachelor of Arts degree, the Bachelor of Business Administration degree, the Bachelor of Science degree, and the Bachelor of Science in Education degree. **Students should refer to their major section of the catalog for degrees conferred and specific course requirements.**

GEN. ED. REQUIREMENTS (Curriculum Core Areas I-IV):

See the sections for the School of Arts and Sciences, the School of Business, and School of Education, for Gen. Ed. Requirements (Curriculum Core Areas I-IV).

GENERAL UNIVERSITY REQUIREMENTS

A student expecting to receive a degree from Athens StateUniversity must start the graduation process two semesters prior to expected semester of graduation. A student must satisfactorily meet all University requirements and financial obligations before the degree is awarded.

To graduate, each student must:

1. complete a minimum of thirty-three semester hours (three semester hour courses) of the last 39 semester hours to meet Athens State University's residency requirement.
2. complete sixty to sixty-four semester hours of upper level college/university credit (300-400 level courses).
3. complete a minimum of fifteen semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than fifteen semester hours of coursework in the major at Athens State University.
4. complete all course requirements for major(s).
5. complete all course requirements for minor (if applicable).
6. complete all of the general studies curriculum core for the degree.
7. attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
8. complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
9. complete the teacher certification requirements (if applicable).
10. apply no more than sixty-four semester hours of non-graded college credit applicable toward the degree.

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

ACADEMIC ADVISING

Upon admission to Athens State University, each student is assigned an advisor. The student should confer with his or her advisor at least once each semester. Although the student bears final individual responsibility for meeting all degree requirements, the advisor will assist in planning the student's academic program. A change of major, or adjustments to the program of study require completion of a Petition for Adjustment of Curriculum.

ACADEMIC CREDIT

The Athens State University calendar consists of semester-length terms; the unit of credit is the semester hour. Course descriptions indicate the number of semester hours which may be earned for a particular course. Transfer credits earned in quarter hours will be evaluated on the basis that one quarter hour equals two-thirds semester hours. (Example: a five quarter hour course would equal 3.3 semester hours.) See Transfer Credit Restrictions on the following page.

Correspondence Credit

Any extension or correspondence credit must be from a regionally accredited college or university, and may not exceed twelve semester hours. The student must petition through his or her advisor and in turn obtain permission from the Dean of Academic Affairs for credit through extension or correspondence courses.

Business and Proprietary Schools

Students who have completed a program from a regionally accredited business or proprietary school may be admitted to Athens State University. During the admissions process, each student's previous work will be reviewed to ascertain the entry study level of the student. Individual related subject courses and grades may not be directly transcripted, however, certain courses may be used as substitutions or waivers for a specific course in the Athens State University degree program but will not affect the total hours residency required for that degree program. Credit earned through this method will not be used in determining the student's cumulative grade point average.

Continuing Education Units

Athens State University does not accept continuing education units (CEU's) for academic credit.

Transfer Credit Restrictions

After achieving junior status or sixty-four semester hours, a student may not transfer credit for courses taken at a junior college except by prior written permission from the dean of the appropriate school. A student's overall grade point average must be 2.0 or higher (transfer and Athens State University credits). No more than 64 semester hours of junior/community college credit will apply toward graduation degree requirements.

Transfer students who have completed a major before enrolling at Athens State University may be required to take selected courses for the major at this institution.

Course credit taken at the graduate level or applied toward a graduate degree will not be accepted at Athens State University or recorded on the Athens State University transcript. However, certain courses may be used as substitutions or waivers for a specific course in the Athens State University degree program but will not affect the total hours residency required for that degree program.

Transient Credit

Any student in good standing who desires to take a course at another institution and transfer credit to Athens State University must first petition to do so through his or her advisor. A letter of permission must be obtained from the Admissions Office. The total number of hours taken cannot exceed the maximum allowed in a term at Athens State. Special permission to return to a junior college must be obtained from the dean of the appropriate academic school.

Students on probation are ineligible to enroll for transient credit at other institutions and courses taken elsewhere will not be accepted.

Students should not participate in transient coursework during the final semester in which graduation at Athens State University is anticipated.

Transcripts of transient work to be applied toward meeting graduation requirements must be received by the Athens State University Admissions Office within the next semester after credit is earned, and at least ten weeks prior to the date of graduation.

ACADEMIC HONESTY

Athens State University, like all communities, can function effectively only when its members treat one another with honesty, fairness, respect, and trust.

ACADEMIC DISHONESTY

It is the responsibility of every student at Athens State University to be familiar with the honor code. It shall be the responsibility of every student at Athens State University to obey and to support the enforcement of this honor code which prohibits lying, cheating, or stealing when these actions involve academic procedures, or when these actions involve any student or University personnel acting in an official capacity.

A. Academic Dishonesty

Academic dishonesty includes **but is not limited to** the following:

1. **Plagiarism**-Plagiarism consists in taking the words or specific substance of another and either copying or paraphrasing the work without giving credit to the source. Examples of plagiarism include:
 a. Submitting a term paper, examination, or other work created by someone else.
 b. Failure to give credit in a footnote for ideas, statements of facts, or conclusions derived by another.
 c. Failure to use quotation marks when quoting directly from another, whether it be a paragraph, a sentence, or even a part thereof.
 d. Close and extended paraphrasing of another.

2. **Cheating**-Cheating consists in the use of unauthorized notes, study aids, or information from another student or student's paper in an in-class examination; altering a graded work after it has been returned then submitting the work for regrading; and allowing another person to do one's work and to submit the work under one's name. This definition includes copying computer files or listings from another student. During examinations, cheating includes referring to information not specifically condoned by the instructor.

3. **Fabrication**-Fabrication consists in presenting data in a piece of work and failing to include a substantially accurate account of the method by which the data were generated or collected. Data gathered in accordance with guidelines defining the appropriate methods for collecting or generating data should be documented by a reference to the guidelines used. Fabrication specifically includes submission of data purporting to be the results of an experiment not actually performed by the student.

4. **Aiding and Abetting Dishonesty**-Aiding and abetting dishonesty includes the providing of material or information to another person with knowledge that these materials or information will be used improperly. This includes taking an examination or doing any work and submitting it under another student's name.

5. **Collusion**-Collusion consists in the unauthorized collaboration of students, one with another, in preparing work to be submitted.

6. **Unauthorized Possession or Disposition of Academic Materials**-Unauthorized possession or disposition of academic materials includes the selling or purchasing of examinations or other academic work, taking another student's academic work without permission, possessing examinations or other assignments not formally released by an instructor, and submitting the same paper for two or more different classes without the specific authorization of all instructors involved.

B. Corollary Actions

1. Any instructor may further define in writing any specific acts which in the context of the class would constitute academic dishonesty. The instructor shall provide a copy of these definitions to the head of the academic division in which the course is taught.
2. Any instructor may require students to sign a pledge at the conclusion of an examination stating that they have neither given nor received aid from any unauthorized source during the examination.
3. Any instructor or proctor shall have the right to examine all materials in the student's possession during quizzes, examinations, and/or laboratory sessions.

C. Procedural Steps

1. When an instructor sees cause to charge a student with academic dishonesty, the instructor will first discuss the matter with the student. The instructor will explain both the specific charge and the proposed penalty including any grade adjustment.
2. To facilitate consistency throughout the University in the application of sanctions for academic dishonesty, all instructors shall notify, in writing, the dean of the appropriate academic school and the Chief Academic Officer for the University, of any academic penalty which has been imposed on a student for reasons of academic dishonesty. This notification shall occur within five (5) instructional days from the date of the alleged academic dishonesty.

3. Within 20 instructional days of the allegation of alleged dishonesty, the student may appeal the instructor's decision to the dean of the appropriate academic school. The dean of the appropriate academic school will confer with the student and the instructor in an attempt to reach an acceptable agreement. At that time, the dean of the appropriate academic school will present the student with a written statement of the charges and the proposed penalty. This notice will also inform the student of the right to appeal to the Chief Academic Office and the steps involved in that process if an agreement is not reached. A copy of this notice, along with supporting documentation, will be sent to the Chief Academic Officer who will maintain records of all proceedings.

 If the dean of the appropriate academic school is the instructor who charges the student with academic dishonesty, then the dean of the appropriate academic school must appoint another faculty member from the School who will assume the duties of the dean of the appropriate school for the purposes of any action regarding this specific case.

4. If the charge is not resolved at the school level, the student may request an appeal at the University level within ten instructional days. Upon receipt of a written request from the student, the Chief Academic Officer will appoint and convene a University-wide committee on academic honesty. This committee will consist of a minimum of two students, except those students involved in the case, and faculty from all schools in the University, except those faculty directly involved in the case.

5. It is the responsibility of the committee to insure that the student's basic rights of due process are upheld. The accused student has the basic rights of:

 a. proper written notification of the accusation including a complete explanation of the proposed penalties and the effect of such penalties on the student's academic life.
 b. proper written notification of the time and place of any hearings held by the committee regarding the case.
 c. fair hearings in the committee with the opportunity to meet the accuser and to hear all the materials being offered in evidence.
 d. the opportunity to present evidence or witnesses.

e. the opportunity to appoint a faculty member, not serving on the committee, to be present during all committee meetings and to offer advice and counsel. This opportunity in no way precludes the student's right to retain other counsel.
f. a full explanation of all policies relating to the proceedings being brought against the student.

After the committee has reviewed the case, the Chair of the Committee shall provide a written advisory report to the Chief Academic Officer. The Chief Academic Officer will then render a decision and notify the student as to whether or not the penalty proposed by the school will be upheld. The decision is nonappealable and final. Grades resulting from academic dishonesty may not be appealed through "Review of final grade process."

D. Academic Penalties

The following is a list of penalties which may be imposed upon any student found guilty of academic dishonesty. Penalties which may be imposed by the instructor or School Dean include.

1. Requirement to submit additional work or take additional exams.
2. A lower or failing grade on the assignment or examination.
3. A lower or failing grade in the course.
4. Removal from class.

E. Possible Additional Penalties

The following is a list of penalties which may be imposed by the Chief Academic Officer, in addition to those imposed by the instructor or School Dean:

1. **Reprimand**: a written statement from the University expressing disapproval of conduct. This reprimand will be retained with the student's permanent record.

2. **Disciplinary Probation:** probationary status to be noted on the student's permanent record.

3. **Disciplinary Suspension:** suspension from the University for a period of one year. This suspension will be noted on the student's permanent record. After a period of one year the student may be readmitted to the University, but will return under disciplinary probation.

4. **Dismissal:** a permanent separation from the University. Students receiving this penalty are forever prohibited from readmission to the University. Dismissal will be noted on the student's permanent record.

ACADEMIC HONORS AND AWARDS

Honors Convocation

A special honors convocation will be held in the spring semester at which time students with outstanding academic achievements are recognized. To be eligible for nomination for special convocation recognition students must have 18 semester hours credit in residence on record at Athens State University. All students in a given academic year are eligible for consideration.

Dean's List

The Dean's List is published each semester and includes the names of students who have attained a 3.75 through 4.0 grade point average on at least 12 semester hours of course work for that specific term.

Honorable Mention List

The Honorable Mention List is published each semester and includes the names of the students who have attained a 3.5 through 3.74 grade point average on at least twelve semester hours of course work for a specific term.

DEGREES WITH HONOR

The following degrees with honor are based on <u>all</u> academic work at all institutions attended. To be eligible for honors, one-half of the total hours applied toward the degree must be regular academic course credit.

Summa Cum Laude
Awarded to the student who earns a grade point average of 3.9 or above during his or her academic career.
Magna Cum Laude
Awarded to the student who earns a grade point average of 3.75 during his or her academic career.
Cum Laude
Awarded to the student who earns a grade point average of 3.5 during his or her academic career.

ACADEMIC RECORD

The student's permanent academic record will consist of an Athens State University transcript, and may include the following: admission application, official transcripts from colleges and universities previously attended, graduation application, degree audit forms, transcript release forms, documentation which may affect the release of student's records and only disciplinary action that would directly affect the student's enrollment in the institution. Financial records are not considered part of the student's permanent academic record.

AUDITED COURSES

Upon recommendation of his or her advisor, a student may audit a non-laboratory course. Students should attend class under the same obligation as the credit student although they are not required to complete scheduled examinations. Standard registration procedures apply. The cost is one-half the regular tuition plus the appropriate fees. No change from audit to credit is allowed. Audited classes are on a space available basis.

CATALOG REQUIREMENT

A student may complete requirements for graduation as specified in the Athens State University catalog for the year of entry provided he or she does so within a period of five years from the original date of entry. A student who does not complete requirements for the undergraduate degree within a period of five years from the date of entry must adhere to the undergraduate requirements of the catalog under which they begin the sixth year of enrollment. This process is repeated every five years until the student graduates.

CLASS ATTENDANCE

It is accepted academic philosophy that sustained class attendance is essential to the overall educational value of a course of study in higher education. In order to achieve maximum benefit from educational activities, Athens State University expects regular class attendance from all students. Those students receiving veterans' benefits are required to attend classes according to the regulations of the Veterans' Administration.

The standards of performance to be met by each student, including specific attendance regulations for each course, will be set by each faculty member for his or her own course. Class attendance policies and other course requirements will be published in the course syllabus and will be discussed in detail by the faculty member on the first day of class each semester. It is important that the student secure a copy of each course syllabus from the instructor on the first day of class, or from the school offices prior to the beginning of classes. A student's performance in relation to the established standards and class attendance regulations shall determine the student's grade in a course. Any student who must miss an examination has the responsibility for notifying the faculty member as soon as is practical. It is the decision of the faculty member whether exams may be "made-up."

CLASS HOUR LOAD

The class hour load for a full-time student is twelve to nineteen semester hours per term including Summer Term. During semesters in which compressed sessions are offered, the institution reserves the right to further limit the number of hours for which a student may enroll. No student may take more than twenty-four (24) semester hours per term. Students who wish to take more than nineteen (19) semester hours must secure written permission via an overload request form. This overload request must be signed by the advisor and the dean of the appropriate academic school prior to enrollment. Requests for exceptions will require written justification along with the following documentation and recommendation of your advisor:

(1) advising worksheet
(2) transcript, and
(3) proposed schedule.

COURSE CANCELLATION

Athens State University reserves the right to cancel any course.

COMMENCEMENT

Commencement ceremonies will be held in the spring and in the summer.

DIRECTED STUDY/RESEARCH COURSES

With approval of the appropriate advisor and dean of the appropriate academic school, Athens State University students may complete no more than six semester hours of Directed Study/Research credit during their academic study with the University. Such directed study research must be conducted in the student's major area of study and the student must complete a directed study form.

DROP AND ADD

For a period specified in the University calendar immediately following registration periods, courses may be dropped and other courses added upon completion of the following requirements:

1. The student must complete the appropriate forms in the Admissions Office; and,
2. Make payments as required in the Financial Affairs Office. The student is responsible for notifying the academic advisor of schedule changes. **(NOTE: There is a $5.00 drop fee.)**

Prior to making a change in schedule, students receiving veteran's benefits must see the Coordinator of Veterans' Affairs; those receiving other financial aid should check with the Director of Student Financial Services.

S.I.R. AGREEMENT (Special Instructional Request)*

Athens State University and Calhoun Community College cooperate in a Special Instructional Request (S.I.R.) program. Grades are reported to the Athens State University Records Office and recorded on the student's Athens State University transcript. Students are subject to English and/or mathematics placement exam (ASSET) at Calhoun. Students registering for mathematics and English courses must contact the Placement Office at Calhoun. Students are not permitted to participate in S.I.R. during their final semester at ASU. (S.I.R. students are not allowed to take Calhoun telecourses or distance learning.)

To participate in this program, the Athens State University student:

1. **must be deficient in one of the courses in the Gen. Ed. Requirements (Areas I-V).**
2. must receive approval of advisor.
3. must register at the Admissions Office during the dates listed for online registration.
4. must pay ASU tuition for the S.I.R. course.
5. must process all S.I.R. withdrawals in ASU Admissions Office.
6. must register for an ASU course for every S.I.R. course.

After meeting with faculty advisor, students registering for a S.I.R. course must go to the Dean of Academic Affairs' office to receive a reference number for the S.I.R. This should be done prior to presenting registration form to the Admissions Office.

Athens State University students are considered visiting students under the S.I.R. program and are placed in Calhoun courses only after all Calhoun students are registered.

CONSORTIUM AGREEMENT

Athens State University participates in a Consortium Agreement with The University of Alabama in Huntsville, Alabama A&M University, and Oakwood College. To participate in the program, the student:

1. must be considered a full-time student at Athens State University.
2. may take only one (1) consortium course per semester.
3. must maintain at least a "C" average. (2.0 on a 4.0 scale)
4. must secure faculty advisor's approval of the course to be taken.
5. may request participation **only** during pre and regular registration.
6. must not participate in Consortium agreement during the final semester in which graduation at Athens State University is anticipated.

The course to be taken must not be available to the student at his/her home institution and it must be in his/her approved schedule and curriculum plan.

GRADING

Grading Policy

Letter grades of **"A"**, **"B"**, or **"C"** represent levels of accomplishment sufficient to allow students to make satisfactory progress toward graduation. **"D"** level work is considered inferior and the minimum-level accomplishment that will allow the students to continue their studies at Athens State University. A grade of **"F"** is assigned to the student who (1) fails to meet minimum course requirements, or (2) voluntarily discontinues class attendance without officially withdrawing.

A grade of **"W"** will be assigned to a student who officially withdraws during the first nine (9) weeks of the semester. Starting with the tenth week, a "W" can be assigned only with the permission of the instructor. After the final exam is given, a "W" cannot be assigned. Absence from class does not constitute an official withdrawal. A "W" cannot be changed to a grade, nor can a grade be changed to a "W". A student not following these procedures will receive the grade of "F."

Withdrawal from classes is not complete until the student has been cleared through the Office of Admissions. Students should retain the official withdrawal form once approved through Admissions. Special regulations pertain to those receiving veterans' benefits or financial aid, and those individuals should confer with the Coordinator of Veterans' Affairs or the Director of Student Financial Services prior to initiating a withdrawal action. Specific dates for withdrawal will be included in the schedule each semester.

A grade of **"I"** (incomplete) will be given only under extenuating circumstances. If an "incomplete" is given, the time allotted a student to complete the course is at the discretion of the instructor; however, a student receiving an "I" in any semester should be aware that the "I" must be completed before the end of the next semester or the "I" automatically becomes an "F" unless extended by the instructor. For the purpose of computation "I" is always evaluated as "F" until a grade change is made.

Quality Points for Letter Grades

For each hour of credit in a subject, the letter grade is equated to grade points as follows:

"A"	4.0 Quality Points
"B"	3.0 Quality Points
"C"	2.0 Qualtiy Points
"D"	1.0 Quality Point
"F"	0.0 Quality Points
"AU"	Audit

Grade Review

Athens State University provides a procedure through which students may request a review of the final grade received in coursework taken at Athens State University which is distinct and different from the appeals procedure for academic dishonesty.

The first step by the student in the appeals process shall be to contact the faculty member involved and try to resolve the dispute informally.

If satisfaction is not achieved at this level, the student may appeal to the dean of the appropriate academic school provided such appeal is filed in writing with the dean of the appropriate academic school within 14 calendar days of the first day of classes of the academic term immediately after the academic term for which the student took the course associated with the grade. This appeal by the student to the dean of the appropriate academic school shall be made in writing and shall state clearly the reason(s) for the appeal of the final grade and the desired remedy. This document shall be provided by the student to the dean of the appropriate academic school and shall constitute the basis and only record for deliberations with the dean of the appropriate academic school. A copy of this document shall be provided by the dean of the appropriate academic school to the faculty member who awarded the grade. This document shall also contribute a part of the record for subsequent appeals by the student to the Chief Academic Officer.

If satisfaction is not achieved at the level of the dean of the appropriate academic school, the student may appeal to the Chief Academic Office within ten (10) instructional days of receiving the written response from the dean of the appropriate academic school. The Chief Academic Officer shall undertake a review of the student's written complaint and the written response by the dean of the appropriate academic school.

All appeals to the dean of the appropriate academic school or to the Chief Academic Officer shall be answered by the respective dean in writing within 21 instructional days of receipt of the appeal by the student.

The appeal form may be obtained from the office of a dean of an academic school or from the office of the Chief Academic Officer.

The decision to change or let stand a final grade received for a course taken at Athens State University is the exclusive right and prerogative of the faculty member who taught the course. The decision of the faculty member in this matter is absolute and final.

GRADUATION APPLICATION

Students must start the graduation process two semesters prior to expected semester of graduation. (For most students this will be upon successful completion of at least 36 semester hours of Athens State University.) Applications are available in the Records Office in the Student Center.

For a student who does not submit the Graduation Application Form by the application deadline, there will be an additional fee charged in the amount of $25.00 for this special diploma order. Failure to notify the Records Office of intent to graduate in a timely manner may result in the student being required to wait until an additional semester.

REPEATED COURSES

A student who has made an unsatisfactory grade in a course completed at Athens State University and who wishes to repeat the course to earn a higher grade must repeat the course at Athens State University. A grade earned with Athens State University will be listed on the official transcript, but only the last course attempted will be used in computing the grade point average and will be applied toward the degree. Bachelor of Science in Education students should understand that GPA is calculated using grades from all courses attempted (professional studies and content courses) and a course may be repeated only one time. (For Education guidelines, see the section for Education.) For pertinent regulations for Veterans receiving educational benefits please see Veterans Advisement.

SECOND DEGREE

Students who seek a second degree must meet all admission requirements, complete all catalog requirements for the major in that degree, and must complete a minimum of thirty-three semester hours in residency at Athens State University beyond the conferral date of the first degree. Students may not receive more than one degree in a designated graduation period.

STUDENT CLASSIFICATION

Juniors - Students who have earned a minimum of sixty-four semester hours of credit or who have received an Associate degree from an accredited two-year college.

Seniors - Students who have completed a minimum of ninety-three semester hours of credit.

Non-Degree Seeking - Student not seeking a degree.

TESTING/ASSESSMENT

The CAAP examination (Reading, Math and Writing) is administered during the first semester of enrollment to all students with the exception of teacher education. Students who have taken this examination at other institutions may submit scores and be exempt from testing at Athens State University. Students are required to take these examinations as part of the institution's assessment program. This assessment provides the institution information on the institution's entering student body as well as provides to each student a "bench-mark" on current levels of understanding in these three areas. The scores may assist students in determining course selection or in seeking additional assistance in the Writing Center and Math Lab.

Students seeking admission to the Teacher Education Program will take the BST (Basic Skills Test) prior to the end of their first semester of enrollment. Students who score below the 320 level must complete 15 clock hours in the writing or math lab for admission to the Teacher Education Program. Near the end of the senior year, all teacher education students will be required to take "exit" examinations within their varied disciplines (majors). These comprehensive exit exams cover the content of the teaching field(s) and the professional education segment.

In non-teacher education fields, each department (major) will require some form of exit assessment. The requirement may be a capstone experience, exit exam, or other method to assess whether students leaving the program have all the necessary curricular attributes as well as to assess the effectiveness of the curriculum within the major. This is an opportunity for self-reflection and synthesis, allowing the student to demonstrate integration of learning and academic growth. Assessment helps the institution meet student needs and helps ensure that teaching and learning are actually taking place. Assessment is continually under review to determine its value and effectiveness. All assessment methods are subject to change as determined appropriate for the institution. Any student having questions about assessment should contact the Testing Office or the dean of the appropriate academic school.

Athens State University honors credit earned through the College Level Examination Program (CLEP), provided appropriate scores are achieved. Students enrolling or enrolled at Athens State University who are interested in attempting the College Level Examinations should consult the Associate Dean of Student Affairs or the Admissions Office in the Sandridge Student Center for information.

A student may not receive CLEP credit for any previously attempted University course. Since CLEP is accepted as non-graded credit, it cannot be used in order to raise the grade point average. All CLEP examinations are accepted as freshman-level credit. Although credit may be awarded by the University, applicability toward the degree program is determined by the school concerned.

Credit earned under the Defense Activity for Non-Traditional Education Support (DANTES), and the United States Armed Forces Institute (USAFI) may be granted by Athens State University. Official transcripts of these scores must be mailed directly to the Office of Admissions.

TRANSCRIPT REQUESTS FROM ATHENS STATE UNIVERSITY

The Records Office must have a written request from the student to have a transcript sent to another college, agency, place of employment, etc., or to the students themselves. OFFICIAL copies of transcripts must be mailed by the Records Office. The following information is helpful in processing your transcript request:

1. Date of Birth
2. Social Security Number
3. Approximate dates of attendance at Athens State
4. Signature (required)
5. Recipient of transcript's complete mailing address
6. All official and student copy's that are to be mailed/faxed will be charged a $5.00 fee (Official copies cannot be faxed).
7. First copy is free.
8. There is no charge for unofficial copies that are obtained in person from the Records Office.

Requests are normally processed within two to three days. There are longer delays during registration periods and at the end of the semester.

WITHDRAWAL

A grade of "W" will be assigned to a student who officially withdraws during the first nine (9) weeks of the semester. Starting with the tenth week, a "W" can be assigned only with the permission of the instructor. After the final exam is given, a "W" cannot be assigned. Absence from class does not constitute an official withdrawal. A "W" cannot be changed to a grade, nor can a grade be changed to a "W". A student not following these procedures will receive the grade of "F."

Withdrawal from classes is not complete until the student has been cleared through the Office of Admissions. Students should retain the official withdrawal form once approved through Admissions. Special regulations pertain to those receiving veterans' benefits or financial aid, and those individuals should confer with the Coordinator of Veterans' Affairs or the Director of Student Financial Services prior to initiating a withdrawal action. Specific dates for withdrawal will be included in the schedule each semester.

ADJUSTMENT OF CURRICULUM

The following adjustments of a student's curriculum necessitate completion of a Petition for Adjustment of Curriculum form in consultation with the student's Academic Advisor:

1. Change to a more recent catalog
2. Change of major/minor
3. Change of degree
4. Substitution for required course
5. Waiver of required course

NON-TRADITIONAL ACADEMIC CREDIT

Philosophy and Purpose

The non-traditional academic credit program at Athens State University is an acknowledgment of the philosophy that it is valid educational practice to recognize and award academic credit for various types of learning attained outside the institution. Such learning may have been acquired through certain educational programs conducted by government, business and industry, the military, and other non-collegiate organizations. In addition, non-traditional academic credit may be awarded for acceptable work experience, and/or technical training. The eligible Athens State University student may apply non-traditional experiences and training to several programs of study leading to a baccalaureate degree.

Eligibility

The student who makes application for non-traditional academic credit must have maintained active and current enrollment as a degree seeking student at Athens State University for a minimum of one academic semester. Applicants for non-traditional academic credit are expected to have satisfied the admission standards as published in the Athens State University catalog. However, applicants who do not otherwise satisfy the minimum semester hour standards for admission, and who are eligible for one or more types of non-traditional credit may use work/military experience credit to justify admission to Athens State University provided:

1. The experience is judged to be equivalent to completion of a technical degree program in an accredited technical college
2. The experience is judged to be not less than the minimum hours of college credit required of junior and senior college transfers.
3. The applicant has completed at least eighteen semester or thirty quarter hours of coursework at a regionally accredited institution.
4. The completed coursework includes Written Composition I and II, and pre-calculus algebra or the equivalent.
5. The applicant has maintained at least a 2.0 on a 4.0 scale on all coursework attempted.

To be eligible for honors, one-half of the total hours applied toward the degree must be regular academic course credit.

Admission to Athens State University will be considered conditional until transcripts from all previously attended colleges and universities, and documentation for all non-traditional credits have been received and verified. All transcripts and non-traditional credit must be received within ten (10) weeks of the first semester of enrollment.

Official evaluations will be processed when (1) the applicant has presented proof of satisfactory completion of one semester at Athens State University, and (2) transcripts from all previously attended institutions have been recorded.

Limitations

1. Credit from non-traditional sources will be granted only if such credit does not duplicate other academic credit.
2. Non-traditional academic credit is granted only if such credit is applicable to the student's course of study.
3. A maximum of sixty-four semester hours earned through non-traditional/non-graded sources may be applied toward a student's degree program.
4. Applications for non-traditional academic credit will not be accepted during the student's final semester of enrollment.

Publication Guides

Publications used as guides in the office of Non-Traditional Credit are as follows:

1. The American Council on Education (ACE)
 a. Guide to the Evaluation of Educational Experiences in the Armed Services.
 b. The National Guide to Educational Credit for Training Programs.
2. Other guidebooks and manuals as provided by appropriate accrediting agencies.

Types of Non-Traditional Academic Credit

The types of non-traditional academic credits processed by the Office of Non-Traditional Credit, the documentation requirements and the procedures to be followed are:

Military Training

Academic credit may be awarded to students who have served in the Armed Forces and have completed specialized training provided the following documentation is received:

1. AARTS Transcript (If available).
2. Copies of DD214, DA21, DA20 and DD295.
3. Copies of certificates, awards, and/or other related military courses or training.

United States Air Force members whose military experience has been accepted by the Community College of the Air Force, need not apply for non-traditional academic credit but should have transcripts forwarded from CCAF directly to the Admissions Office.

Military documentation will be evaluated in conformance with:

1. Military Occupational Specialties (MOS)
 Appropriate college credit will be granted based on the exhibit date and the ACE course credit recommendation.

2. Military Education

Appropriate academic credit will be granted based on the date and place the course(s) was taken and the ACE course credit recommendation. Academic credit may be awarded at the lower division or upper division category in accordance with ACE recommendations. **Duplication of credits will not be granted.** The decision to accept academic credit from military evaluations toward specific courses in a degree program will be made by the student's academic advisor.

Career/Technical/Professional Education

Academic credit may be awarded for career and technical professional education provided the following documentation is received:

1. Documentation for teaching professional education such as a letter from a director or president specifying length of tenure as a teacher, and validating the successful nature of the experiences.
2. Documentation status card.
 a. Journeyman status card.
 b. Apprenticeship certificate.
 c. Journeyman examination credentials.
3. Documentation of additional training.
 a. Any certificates, letters, or transcripts of additional technical training.
 b. Official transcripts from all previously attended educational institutions.

Career/technical experience may require validation by the National Occupational Competency Testing Institute (NOCTI) or another comparable examination of competency approved by the Postsecondary Education Services of the State Department of Education.

For certification requirements, at least three years compensated career/technical work experience in the technical specialty is required for those who have completed a formal postsecondary technical training program; those who have not completed the formal technical training must have completed six years compensated work experience in the technical specialty.

The decision to award career/technical/professional education credits will be made by the Career and Technical Education advisor.

Nursing and Other Health Related Professional Training

Academic credit may be awarded to a student who has completed a professional training program in nursing or other health related professions and holds a license. The following documentation is required:

1. Official transcripts of educational training.
2. Copy of license or proof of successful completion of a State Board Examination.
3. Documentation and verification of work experience in related field, including dates of service and positions held.

The decision to accept nursing and other health related professional training toward specific courses will be made by the Health Sciences advisor.

Technical Work Experience Credit

Up to a maximum of 39 semester hours of academic credit may be awarded as a Basic Technical Specialty established through compensated work experience in selected technical fields. The Basic Technical Specialty is intended primarily to satisfy technology core requirements and is awarded as lower division block credit. The procedures for the evaluation of such credit are as follows:

1. The student who wishes to apply for the Basic Technical Specialty must present appropriate documentation and verification of at least six or more years of successful compensated work experience in an approved technology. Only one Basic Technical Specialty will be awarded.

2. The application must be made in writing to the student's academic advisor or to the Coordinator of Non-traditional Credit.
3. A non-refundable filing fee of $50.00 must be paid for the evaluation process.

The decision to accept technical work experience toward a student's degree program will be made by the Academic Advisor and the dean of the appropriate academic school. The decision is final and absolute.

Work-Based Academic Credit

Up to a maximum of 12 semester hours of senior college credit may be earned through a process that involves validation of appropriate work experience and demonstration of academic competency by examination. Such credit is available for selected courses taught by Athens State University. The student's academic advisor should be consulted to determine the specific course(s) in which credit may be awarded through this process. The procedures for the evaluation of such credit are as follows:

1. The student must submit an application for the specific course(s) for which credit is sought. Each course requested must be listed in the current Athens State University catalog or the catalog under which the student entered.
2. The student must submit valid documentary evidence containing a complete description of the actual work experience as it relates to the content and instructional objectives of each course requested.
3. Proof of a minimum of four or more years related work experience for each course requested must be clearly established by the evidence presented.
4. Tuition for each course, in the amount of the current Athens State University tuition rate must be paid with the application. The tuition is non-refundable.
5. When the work experience data has been evaluated and accepted as appropriate, a written examination covering the content area of the course may be administered by the academic school offering the course(s). If a passing grade is earned, academic credit will be awarded.

The decision to award work based academic credit will be made by the appropriate Dean. The decision is final and absolute. Application forms may be obtained from the Office of Non-traditional Credit or the dean of the appropriate academic school.

Police Academies

Academic credit may be awarded to students who have completed police academy training and who have acceptable work experience with law enforcement agencies. The procedures for evaluation of such credit are as follows:

1. The student must submit proof of police academy training.
2. The student must submit letters of documentation from employers/supervisors indicating dates of service and positions held.

The decision to accept credit for police academy training will be made by the Justice Studies advisor.

Public Safety Administration

Academic credit may be awarded to students who have earned certain public safety certifications and/or work experience in Public Safety Management and/or supervision. Copies of professional certifications and documentation and verification of work experience including letters of appointment (if required) must be submitted with the application. Applicable tuition at the current Athens State University tuition rate must be paid for each course evaluated under this process. The decision to accept credit for public safety administration evaluations will be made by the Public Safety Administration advisor.

Other Types of Non-Traditional Academic Credit

Academic credit may be awarded from other professional associations and government agencies provided proper documentation is submitted and accepted as appropriate.

For additional information on Non-Traditional Academic Credits, students should contact the coordinator of the Office of Non-Traditional Credit in the Student Center or the Dean of the appropriate school.

SCHOOL OF ARTS AND SCIENCES

Tim R. Jones, Ed.D.
Interim Dean
Founders Hall

Major or Minor	Department	B.A.	B.S.	Minor	Certificate
Art	Art	*		*	
Behavioral Science	Interdisciplinary		*	*	
Gender & Multicultural Stu.	Behavioral Science			*	
Gerontology	Behavioral Science			*	
Biology	Biology		*	*	
Chemistry	Chemistry		*	*	
Computer Information	Computer Science				
Systems Option			*	*	
Computer Networking	Computer Science			*	*
Computer Science	Computer Science		*	*	
English	English	*		*	
Health Science	Interdisciplinary		*		
History	History	*		*	
Instrumentation	Physics		*	*	
Instrumentation Physics Option	Physics		*		
Justice Studies	Government and Public Affairs		*	*	
Liberal Studies	Interdisciplinary		*		
Marine Science	Biology			*	
Mathematics	Mathematics		*	*	
Physics	Physics		*	*	
Political Science	Government and Public Affairs	*	*	*	
Psychology	Psychology	*	*	*	
Public Safety Administration	Government and Public Affairs		*		
Religion	Religious Studies	*		*	
Behavioral Science	Religious Studies			*	
Church Finance	Religious Studies			*	
Philosophy	Religious Studies			*	
Religious Education	Religious Studies			*	
Sociology	Sociology	*	*	*	

SCHOOL OF ARTS AND SCIENCES

Both the organization of the School of Arts and Sciences and information relative to degree options, majors, minors, and a certification program are summarized in the preceding chart. An asterisk is used to designate the degree option(s) for a particular major, and to indicate that a department offers a minor or a certificate.

Certain School of Arts and Sciences curricula require courses to be completed in a particular sequence. Therefore, it is important that Arts and Sciences students meet with their Faculty Advisor, to be assigned by the School Dean, as soon as possible. It must be noted, however, that the student bears individual responsibility to schedule and complete all requirements for the degree and a particular program of study. To fit specific student need, a special program of study may be devised which varies from published requirements. However, under no circumstances are alterations to a particular curriculum permitted without prior approval of the student's Faculty Advisor and completion of a Petition for Adjustment of Curriculum form.

School of Arts and Sciences curricula are designed to prepare students for entry into the job market, or for continuing education in graduate or professional school. Through its course offerings, the School seeks to engage the intelligence, excite the imagination, and improve the scholarship of its students, and to assist its students to develop:

- competencies in written and oral communications;
- appreciation of our cultural heritage and understanding of our world;
- a knowledge base conducive to self growth and enriched life experiences; and,
- fundamental knowledge and research skills essential to lifelong learning.

Majors leading to a Bachelor of Arts degree are sponsored by departments of Art, English, Government and Public Affairs, History, Psychology, Religious Studies, and Sociology. Majors leading to a Bachelor of Science degree are sponsored by departments of Biology, Chemistry, Computer Science, Government and Public Affairs, Instrumentation, Mathematics, Physics, Psychology, and Sociology. The departments of Psychology and Sociology sponsor an interdisciplinary major in Behavioral Science leading to a Bachelor of Science degree. The Department of Computer Science sponsors a computer networking certificate program. In cooperation with the School of Education, students majoring in Biology, Chemistry, History, Language Arts, Mathematics, Comprehensive Science, or Social Science may earn a Bachelor of Science in Education degree leading to Class B Certification in High School Education (see School of Education section of this catalog). In cooperation with the School of Business, the School sponsors an interdisciplinary major in Science Management leading to the Bachelor of Science degree. In cooperation with the School of Business or the School of Education, the School sponsors an interdisciplinary major in Health Science leading to the Bachelor of Science degree. Pre-medical, pre-dental, and para-medical students are advised to major in either Biology or Chemistry; a program of study tailored to meet specific recommendations of a particular professional school, and leading to a Bachelor of Science degree, will be worked out for the student in consultation with his or her Faculty Advisor.

To qualify for graduation, science or mathematics students must achieve a 2.5 grade point average in their major field.

INTERDISCIPLINARY PROGRAMS

Pre-Law Program

Many Athens State University students express an interest in attending law school following graduation. Many students have frequently attended law school at The University of Alabama, Cumberland School of Law at Samford University, The University of Tennessee, The University of Florida, George Washington University and many others.

To be admitted to an accredited law school, a student must have a bachelor's degree, an acceptable score on the Law School Admission Test (LSAT), and at least a 3.0 GPA. Although no law school requires a specific major, political science and justice studies have been popular undergraduate majors for many students because of the opportunity to take courses in American government, constitutional law, civil liberties, criminal law, criminal justice process, public administration, and the American legal system. The Methods of Behavioral Science Research and the Senior Research Project courses are designed to improve the student's research and writing skills.

Students should consider electives that will enhance skills needed in law school. Courses in the English department can improve oral and written communication which are essential skills for success in law school. In the School of Business, courses in accounting, business law, and real estate are helpful. A student entering law school should also know how to operate basic computer programs. Admission to law school is very competitive and no specific program can guarantee admission.

Students interested in choosing political science and/or justice studies as a prelaw major should contact the secretary in the department of government and public affairs in the School of Arts and Sciences - 233-8273. Students interested in choosing business as a prelaw major should contact the secretary in the School of Business - 233-8211. For further information call 1-800-522-0272 or (256) 233-8100 or refer to the Athens State University website: www.athens.edu.

Pre-Health Programs

Athens State University offers a variety of undergraduate academic programs designed to satisfy admission requirements for schools of medicine, dentistry, optometry, veterinary medicine, pharmacy, chiropractic medicine, physical therapy, and many other related disciplines. Advisors work with students to plan individual academic programs according to the requirements of their chosen majors and to meet the general university requirements. In addition, students will incorporate the following courses that are required by most medical, dental, and optometry schools:

English composition and literature (12 semester hours)
General chemistry with laboratory (8 semester hours)
Organic chemistry with laboratory (8 semester hours)
Biochemistry (recommended) (3 semester hours)
General biology with laboratory (8 semester hours) (additional biology electives recommended are: genetics, embryology, cell biology)
General physics with laboratory (8 semester hours)
Mathematics (calculus recommended) (6 semester hours)

Most Athens State University pre-health professional students major in a scientific field such as:

Biology
Chemistry or
Physics

However, it is not mandatory that you be a science major to be eligible for admittance to a professional school. It is only necessary that your program of study include the required courses for admittance to the professional school of choice. It is very important to consult with the pre-health professions advisor at Athens State University to determine specific admission requirements to the desired professional school. Competition for admission is very intense and students should realize that completion of only the admission requirements does not ensure acceptance. Professional schools look for students with outstanding academic skills, as well as students with diverse interests and a broad educational background. Successful applicants need a strong foundation in natural sciences, a solid framework in the humanities and social sciences, and excellent communication skills.

Students are encouraged to become active members of the Health and Science Careers Club. Informative speakers and camaraderie with fellow students with common interests and goals are a vital part of the university experience.

For additional information, students should contact the secretary in the School of Arts and Sciences - 233-8274.

ART (AR)

The Bachelor of Arts degree in Art at Athens State University certifies the completion of major study in the visual arts, which has been taken as an integral part of a general liberal arts degree program. The degree implies study in-depth of a number of studio and art history courses.

The self-growth of artists is a primary goal of this program. Preparation for graduate studies in visual arts for majors is another important aspect of this study. Each student will receive careful consideration of individual needs and conscientious direction in planning an appropriate avenue of study within the program. The senior majors exhibition culminates the study.

Additionally, the department offers enrichment courses for non-art majors, electives for the continued growth of artists, required art education courses and required humanities electives.

Bachelor of Arts - Art Major
MAJOR CODE: 50.0701

Program components for the Bachelor of Arts degree with a major in Art include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS.**

To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Other Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent required	3 semester hours	__
	Natural Sciences (lab based) required	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Additional history/behavioral/social science courses	9 semester hours	__ __ __
TOTAL GEN. ED. REQUIREMENTS		**41 semester hours**	

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL):**

Drawing (first course)	3 semester hours	___
Drawing (second course)	3 semester hours	___
Two-Dimensional Design (first course)	3 semester hours	___
Three-Dimensional Design (first course)	3 semester hours	___
Ancient and Medieval Art	3 semester hours	___
Survey of Post-Medieval Art	3 semester hours	___
CIS 146 Microcomputer Applications or		
CIS 301 Problem Solving with Computers	3 semester hours	___
General electives	2 semester hours	___
TOTAL MAJOR PREREQUISITE HOURS:	**19-23 SEMESTER HOURS**	

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

AR 312 Figure Drawing	3 semester hours	___
+ AR 330 Topics in Photography or AR 331 Photography II	3 semester hours	___
AR 418 Art Studio	3 semester hours	___
AR 420 Art Studio or		
AR 404 Art Studio in Photography or		
AR 406 Art Studio in Graphics	3 semester hours	___
AR 423 History of Modern Art	3 semester hours	___
AR 424 Late Modern Art History	3 semester hours	___
AR 430 Advanced Drawing and Design or AR 410 Layout and Design	3 semester hours	___
AR 402 Portfolio, Exhibition and Art Research	3 semester hours	___

TOTAL PROFESSIONAL HOURS: 24 Semester Hours

+Students with emphasis in photography must take AR 330 and AR 331. Students with the A.A. or A.S. degree and photography experience, with the permission of the instructor, may elect to skip AR 330.

5. The Art major must complete a minimum of forty-five semester hours of art coursework, at least fifteen semester hours of which must be taken at Athens State University. At least 18 hours of coursework in the major must be upper-division coursework (300-400 level). All students will be required to exhibit their work on campus during their final term before graduation.

6. A minor is required. Students with emphasis in photography or graphic design are encouraged to consider a business minor. Electives in marketing or advertising are recommended as well. 18 semester hours

GENERAL ELECTIVES (May include art classes) **22 Semester Hours** ___ ___ ___ ___ ___ ___ ___ ___

TOTAL HOURS FOR GRADUATION 124-128 SEMESTER HOURS

Art Minor

Art minors should notify a member of the art faculty of their intentions as soon as the art minor is declared. A minor in art consists of 18 semester hours of art coursework, including the following courses or their equivalent:

AR 312 Figure Drawing	3 semester hours	___
AR 423 History of Modern Art	3 semester hours	___
AR 424 Late Modern Art History	3 semester hours	___
AR 430 Advanced Drawing and Design or AR 410 Layout and Design	3 semester hours	___
Art electives	6 semester hours	___ ___
Total Hours Required for a Minor	**18 semester hours**	

BEHAVIORAL SCIENCE

This program is designed for the student who ultimately aspires to work in the area of mental health, social work, counseling, or substance abuse. It provides students the flexibility of being able to enter the work force immediately upon graduation or to enter a master's degree program in counseling or social work. The program provides a solid foundation of the basic knowledge in psychology and sociology, and provides for a concentration of courses dealing with applied and clinical aspects of human services professions. The specific objectives of this degree are to:

- Provide a knowledge base of psychology including major theories and research findings.
- Teach a variety of clinical concepts and skills which will be useful in applied human services settings.
- Instill an appreciation for the ethical principles governing the fields of psychology, social work, and counseling.
- Assist the student either to locate degree related employment or to be admitted to an appropriate graduate program.

A departmental exit exam is required of all students completing a degree in behavioral science.

Bachelor of Science - Behavioral Science Major
MAJOR CODE: 30.9999

Program components for the Bachelor of Science degree with a major in Behavioral Science include:

1. **GENERAL UNIVERSITY REQUIREMENTS:**

To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. Written Composition **6 semester hours** __ __

Area II. Humanities/Fine Arts (12 semester hours)

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. Mathematics and Natural Sciences (11 semester hours)

Finite math or its equivalent required 3 semester hours __

Natural Sciences (lab based) required 8 semester hours __ __

Area IV. History/Behavioral and Social Sciences (12 semester hours)

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL):**

Marriage and Family	3 semester hours ___
General Psychology	3 semester hours ___
CIS 146 Microcomputer Applications or	
CIS 301 Problem Solving with Computers	3 semester hours ___
Electives in Sociology or Psychology	6 semester hours ___ ___
General electives	8 semester hours ___ ___ ___
TOTAL MAJOR PREREQUISITE HOURS:	**23 SEMESTER HOURS**
TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS:	**64 SEMESTER HOURS**

4. **PROFESSIONAL COURSES:**

The following courses must be completed at the 300/400 level:

PS 304 Drugs and Behavior	3 semester hours ___
PS 331 Social Psychology	3 semester hours ___
PS 332 Child Psychology **or**	
PS 334 Adolescent Psychology **or**	
PS 335 Adult Psychology	3 semester hours ___
PS 341 Statistics with Advanced Topics in Behavioral Science	3 semester hours ___
PS 352 Abnormal Psychology	3 semester hours ___
Psychology Elective	3 semester hour ___
SO 312 Majority/Minority Group Relations	3 semester hours ___
SO 342 Methods of Behavioral Science Research	3 semester hours ___
SO 360 The Contemporary American Family	3 semester hours ___
SO 361 Social Analysis	3 semester hours ___
SO 362 Deviant Social Behavior	3 semester hours ___
Sociology Elective	3 semester hours ___
TOTAL PROFESSIONAL HOURS:	**36 SEMESTER HOURS**

5. A minor is **not** required.

6. **GENERAL ELECTIVES** **28 Semester Hours** ___ ___ ___ ___

The behavioral science major is encouraged to select electives related to work in the human services field. Such electives would include additional psychology and sociology courses, but no more than 12 semester hours in these areas, and Human Anatomy and Physiology, Human Sexuality, and Criminal Justice. ___ ___ ___ ___ ___ ___

7. **TOTAL HOURS FOR GRADUATION** **128 SEMESTER HOURS**

Behavioral Science Minor

Choose one from the following group:

PS 352 Abnormal Behavioral	3 semester hours ___
PS 304 Drugs and Behavior	3 semester hours ___
PS 406 Physiological Psychology	3 semester hours ___

Choose one from the following group:

PS 331 Social Psychology	3 semester hours ___
PS 332 Child Psychology	3 semester hours ___
PS 402 Introduction to Clinical Psychology	3 semester hours ___
SO 360 The Contemporary American Family	3 semester hours ___
SO 471 Aging in a Mass Society	3 semester hours ___

Required:

PS 334 Adolescent Psychology	3 semester hours ___
PS 335 Adult Psychology	3 semester hours ___
SO 362 Deviant Social Behavior	3 semester hours ___
SO 312 Majority/Minority Relations	3 semester hours ___
TOTAL	**18 semester hours**

Gerontology Minor

GE 320 Nutrition	3 semester hours	___
GE 335 Adult Psychology	3 semester hours	___
GE 410 Physiology of Aging	3 semester hours	___
GE 412 Aging Policy and Programs	3 semester hours	___
GE 471 Aging in a Mass Society	3 semester hours	___
GE 464 Practicum in Psychology/Sociology/Gerontology	3 semester hours	___
TOTAL	18 semester hours	

Gender and Multicultural Studies Minor

PS/SO301 Introduction to Gender and Multicultural Studies	3 semester hours	___
Choose one course from the Humanities section listed below	3 semester hours	___
Choose one course from the Social & Behavioral Sciences section listed below	3 semester hours	___
Choose one course from the Business section listed below	3 semester hours	___
Choose three additional courses from the Humanities; Social & Behavioral Sciences; or Business courses listed below	9 semester hours	___ ___ ___

Humanities

AR 423 History of Modern Art (3 semester hours)
AR 424 Late Modern Art History (3 semester hours)
EH 325 Myth: Ritual and Culture (3 semester hours)
EH 401 Conflict Management (3 semester hours)
EH/RE 416 Interpreting the Text (3 semester hours)
EH 440 African-American Studies (3 semester hours)
EL 320 Children's Literature (3 semester hours)
HU 330 Landmarks of Civilization (3 semester hours)
RE 301 Religions that Shaped the World (3 semester hours)
RE 312 History of Judaism (3 semester hours)
RE 314 History of Islam (3 semester hours)

Social and Behavioral Sciences

ED 312 The Child in a Diverse Society (3 semester hours)
GO 309 North America and Europe (3 semester hours)
GO 310 South America, Africa and Asia (3 semester hours)
JS/SO 452 Advanced Criminology (3 semester hours)
PH/SO 300 Moral Values in Today's Society (3 semester hours)
PO/SO 351 American Public Policy (3 semester hours)
PS 331 Social Psychology (3 semester hours)
SE 301 Introduction to Exceptional Learners (3 semester hours)
SO 312 Majority/Minority Group Relations (3 semester hours)
SO 360 Contemporary American Family (3 semester hours)

Business

EC/GO 311 Economic Geography (3 semester hours)
EC/PO 320 Introduction to International Commerce (3 semester hours)
EC 348 Labor Economics (3 semester hours)
MG 352 International Business (formerly Global Dimensions of Business) (3 semester hours)
GBA/PS 368 Industrial and Personnel Psychology (3 semester hours)

TOTAL HOURS 21 SEMESTER HOURS

NOTE: To fulfill the requirements for the minor, students must take at least 15 semester hours that do not overlap with their major or another program of study.

BIOLOGY (BI)

The Department of Biology sponsors majors leading to the Bachelor of Science degree and to the Bachelor of Science in Education degree (See School of Education for degree requirements.) Biology and Marine Science minors also are offered.

Structured to prepare students for research and technical areas requiring a baccalaureate degree, the biology major also is designed to satisfy most graduate and/or professional school admission requirements. The objective of the major is to provide the graduate with a comprehensive science education, encompassing standard academic courses in biology, chemistry, mathematics, and computer science. Courses and programs are structured to provide basic coursework applicable to (1) fields requiring a general preparation in biology, (2) graduate and professional programs, (3) medical and related health fields, and (4) secondary school teaching.

Bachelor of Science - Biology Major
MAJOR CODE: 26.0101

Program components for the Bachelor of Science degree with a major in Biology include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. Written Composition **6 semester hours** __ __

Area II. Humanities/Fine Arts (12 semester hours)

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. Mathematics and Natural Sciences (11 semester hours)

Precalculus algebra or higher 3 semester hours __

Principles of Biology I and II 8 semester hours __ __

Area IV. History/Behavioral and Social Sciences (12 semester hours)

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL):**

The biology major must complete:

College Chemistry I 4 semester hours ___
College Chemistry II 4 semester hours ___
Biology or Chemistry elective 4 semester hours ___
Elementary Statistics or Calculus I 3-4 semester hours ___
Fundamentals of Organic Chemistry or Organic Chemistry I 4 semester hours ___
CIS 146 Microcomputer Applications or
CIS 301 Problem Solving with Computers 3 semester hours ___
TOTAL MAJOR PREREQUISITE HOURS: 19-23 SEMESTER HOURS
TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

BI 301/BI301L Cell Structure and Function 4 semester hours ___
BI 302/BI302L Genetics 4 semester hours ___
BI 303BI303L General Ecology 4 semester hours ___

A minimum of 18 semester credit hours from among the following biology courses:

Human Anatomy and Physiology I 4 semester hours ___
Human Anatomy and Physiology II 4 semester hours ___
General Microbiology 4 semester hours ___
BI 300/BI300L Microbes and You 4 semester hours ___
BI 311/BI311L Biodiversity of North Alabama 4 semester hours ___
BI 321 Conservation Biology 3 semester hours ___
BI 322 Human Genetics 3 semester hours ___
BI 323 Human Reproduction 3 semester hours ___
BI 341 Biogeography 3 semester hours ___
BI 342 Economic Botany 3 semester hours ___
BI 409 Biochemistry 3 semester hours ___
BI 411/BI411L Invertebrate Systematics and Morphology **or**
BI 412/BI412L Invertebrate Development and Function 4 semester hours ___
BI 413/BI413L Vertebrate Biology **or**
BI 414/BI414L Comparative Vertebrate Anatomy 4 semester hours ___
BI 415 Microbial Toxins and Human Health 3 semester hours ___
BI 420 Field Vertebrate zoology I: Ichthyology and Herpetology 4 semester hours ___
BI 421 Field Vertebrate Zoology II: Ornithology and Mammalogy 4 semester hours ___
BI 423/BI423L Histology 4 semester hours ___
BI 424/BI424L Animal Physiology 4 semester hours ___
BI 425/BI425L Embryology 4 semester hours ___
BI 427/BI427L Parasitology 4 semester hours ___
BI 429/BI429L Immunology 4 semester hours ___
BI 431BI431L Plant Systematics and Morphology **or**
BI 432/BI432L Plant Development and Function 4 semester hours ___
BI 440 Biotechnology 3 semester hours ___
TOTAL PROFESSIONAL HOURS: 30 SEMESTER HOURS

5. The Biology major must complete a minimum of 18 semester hours of upper division biology coursework, at least 12 semester hours of which must be taken at Athens State University. Courses taken under the S.I.R. agreement do not constitute upper division coursework.

The major who plants to attend graduate, medical, or other professional (e.g., veterinary, chiropractic, optometry, pharmacy) school, or who seeks special licensure or certification (e.g., physical therapist, wildlife biologist) should deter mine the specific recommendations or requirements of the particular school, licensing or certifying agency for science and mathematics coursework and complete the recommended or required coursework. A program of study tailored to meet specific recommendations and/or requirements for science and mathematics coursework then will be developed for the major in consultation with his or her Faculty Advisor. In general, the following courses or their equivalents frequently are recommended or required:

Calculus I, II (MA 303, 304)
Organic Chemistry (CH 311, 312)
Physics (PY 301, 302)
Biochemistry (BI410 or CH 413

6. A minor is required. 18 semester hours

7. **GENERAL ELECTIVES** 16 semester hours___ ___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION** 124-128 SEMESTER HOURS

9. **Pre-assessment and exit examinations**: To comply with Southern Association of Colleges and Schools (SACS) accreditation standards, the Department of Biology administers both pre-assessment and exit examinations to its majors. The examinations serve a four-fold purpose:

(1) to assess preparedness for taking certain junior or senior level biology courses;

(2) to establish a benchmark for assessing knowledge gained as a result of completing the biology major at ASU;

(3) to assess preparedness for graduate study in biology or for admission to professional school; and

(4) to assess preparedness for a career as a biologist.

There is no cost for taking the examinations, nor is it necessary to undertake any special preparation for the examinations. The pre-assessment examination is designed to cover topics that usually are presented in an introductory biology sequence (e.g., a two semester sequence - Principles of Biology I, II) Exit examination questions are drawn from the following areas: Cellular Biology, Ecology (including Field Ecology), Genetics, Vascular and Non-vascular Botany, and Invertebrate and Vertebrate Zoology. The examinations are designed to be completed in 60 minutes. The pre-assessment examination is administered during the first term of attendance at Athens State University; the exit examination is administered during the term at the end of which the major expects to graduate.

BIOLOGY MINOR

A minor requires completion of a minimum of 18 semester hours of biology coursework, including a minimum of 6 semester hours of upper division coursework which must be taken at Athens State University.

The minor must include the following courses or their approved equivalents:
Principles of Biology I, II 8 semester hours
Total hours required for minor 18 semester hours

MARINE SCIENCE MINOR

A Marine Science minor requires completion of 18 semester hours of marine science and/or biology coursework, at least 12 semester hours of which must be taken at Dauphin Island Sea Lab.

The minor must include the following courses or their approved equivalents:
Principles of Biology I, II 8 semester hours

MARINE ENVIRONMENTAL SCIENCES CONSORTIUM

Athens State University is a member of the Marine Environmental Sciences Consortium, based at Dauphin Island, Alabama. This affiliation offers Athens State University students an opportunity to take courses and conduct research in estuarine and marine environments. Courses offered during the summer at Dauphin Island Sea Lab may be taken for credit at Athens State University toward a major or minor in biology or a minor in marine science. Some of the course offerings cannot be taken for biology major or minor credit. All programs of study that involve marine science courses must be approved by the MESC liaison. A Dauphin Island Sea Lab Information Bulletin listing summer school course offerings can be obtained early in the spring semester from a member of the Athens State University Department of Biology. Active courses of undergraduate instruction sponsored by the Consortium include the following:

Marine Biology for Teachers
Marine Biology
Marine Invertebrate Zoology
Marine Botany
Marine Geology
Marine Ecology
Marine Vertebrate Zoology
Coastal Ornithology
Marine Technical Methods
Coastal Geomorphology
Coastal Climatology
Commercial Marine Fisheries
Coastal Zone Management
Dolphins and Whales
Marsh Ecology
Introduction to Oceanography

CHEMISTRY (CH)

The chemistry major may earn either the Bachelor of Science degree or the Bachelor of Science in Education degree (See School of Education for degree requirements.) The Bachelor of Science degree is sufficient preparation for a career in industrial or governmental chemistry laboratories and graduate study. The Bachelor of Science in Education degree prepares the student for high school teaching. With proper electives, the chemistry major also may enter graduate degree programs in law, medical or dental school, environmental sciences, and related fields.

Bachelor of Science - Chemistry Major
MAJOR CODE: 40.0501

Program components for the Bachelor of Science degree with a major in Chemistry include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. **Written Composition** **6 semester hours** __ __

Area II. **Humanities/Fine Arts (12 semester hours)**

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. **Mathematics and Natural Sciences (11 semester hours)**

Precalculus algebra or precalculus algebra and trigonometry ... 3 semester hours __

College Chemistry I and II 8 semester hours __ __

Area IV. **History/Behavioral and Social Sciences (12 semester hours)**

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL COURSES):**

**Pre-Calculus Trigonometry	3 semester hours ___
Calculus I	4 semester hours ___
Calculus II	4 semester hours ___
Calculus III	4 semester hours ___
General Physics I (Calculus based)	4 semester hours ___
General Physics II (Calculus based)	4 semester hours ___
Electives	0-3 semester hours ___

**If Pre-calculus algebra (3 semester hours) is completed to satisfy the Area III mathematics requirement, the student should complete pre-calculus trigonometry (3 semester hours) in addition to pre-calculus algebra. Completion of pre-calculus algebra and trigonometry (4 semester hours) will satisfy both the Area III mathematics requirement and the Area V requirement for trigonometry.

TOTAL MAJOR PREREQUISITE HOURS: 23 semester hours
TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 64 semester hours

4. **PROFESSIONAL COURSES:**

CH 311, 312 Organic Chemistry I, II	8 semester hours___ ___
CH 314 Polymer Science***	4 semester hours___
CH 324 Analytical Chemistry	4 semester hours___
CH 330 Environmental Chemistry***	3 semester hours___
CH 410 Instrumental Analysis	3 semester hours___
CH 410L Instrumental Analysis Lab **or**	
CH 461 Directed Study/Research in Chemistry	1 semester hour ___
CH 420 Intermediate Inorganic Chemistry	3 semester hours___
CH 430 Physical Chemistry I	5 semester hours___
CH 431 Physical Chemistry II	4 semester hours___
CIS 301 Problem Solving with Computers	3 semester hours ___

***The major who plans to attend medical school or health related professional (e.g., veterinary, chiropractic, osteopathic, pharmacal) schools may substitute CH 413 Biocehmistry for either CH 314 or CH 330.

TOTAL PROFESSIONAL HOURS: 38 SEMESTER HOURS

5. The chemistry major must complete a minimum of 24 semester hours of upper division 300/400 level chemistry coursework at Athens State University. For those majors who plan to attend graduate, medical, or other professional school, the following courses are recommended:
Introduction to Information Systems or Microcomputer Applications
CH 409 Biochemistry
M A 421 Differential Equations

6. A minor **is not** required.

7. **GENERAL ELECTIVES:** 26 semester hours ___ ___ ___ ___ ___ ___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION** 124-128 semester hours

9. **Pre-assessment and Exit Examinations:** During the first term of enrollment at Athens State, the chemistry major must complete a pre-assessment examination. During the final term of enrollment at Athens State, the chemistry major must complete the major field achievement examination for chemistry.

Chemistry Minor

A minor in Chemistry requires 20 semester hours of chemistry coursework including a minimum of 9 semester hours of upper division coursework which must be completed at Athens State University.

College Chemistry I, II or CH 303, 304, 305	8 semester hours
CH 324 Analytical Chemistry	4 semester hours
Upper Level 300/400 Chemistry courses to be determined by Chemistry Faculty Advisor	8 semester hours
TOTAL HOURS REQUIRED FOR MINOR:	**20 semester hours**

COMPUTER SCIENCE (CS)

The Department of Computer Science sponsors courses of study leading to a Bachelor of Science degree with a major in Computer Science (CS) or with a major in Computer Science - Computer Information Systems (CIS) option. The Department also sponsors minors in both Computer Science and Computer Information Systems, and a computer networking (CN) certification program.

CS and CIS curricula emphasize structured programming, problem solving, and software engineering, and require significant hands-on experience using hardware and software resources available in state-of-the-art computer laboratories maintained by the Department. To ensure up-to-date content, CS and CIS curricula are continually undergoing revision. Complementing the department's full-time faculty, several highly qualified, practicing, computer professionals serve as adjunct faculty. In addition to teaching, the adjunct faculty assist full-time faculty to revise courses and to design courses of study that are responsive to the dynamic external computer science environment—the demands of business, industry, government, and research organizations.

The CS curriculum is designed to prepare students for the job market and/or for graduate school. With regard to the student's immediate objective-to analyze problems and design software solutions as part of a software development team in industry, government, and/or a research organization, or to meet admission requirements of graduate programs in Computer Science- approved electives should be chosen carefully.

The CIS curriculum focuses on problem solving in a business environment. The goal of this curriculum is to prepare the student for the job market as a technically oriented member of a data processing management team.

Comprised by eight courses (See Course Descriptions), the Computer Networking (CN) curriculum is approved by the National Association of Communication Systems Engineers (NACSE), a non-profit, vendor neutral association of Information Science and Information Technology professionals. The student who successfully completes CN 301, CN 302, CN 303, CN 304, and a locally administered certification exam can certify as a NACSE Associate Network Specialist (NANS); the student who successfully completes all eight CN courses and a locally administered certification exam can certify as a NACSE Senior Network Specialist (NSNS). The course textbooks are provided as a licensed package covering all topics leading to the NANS or the NSNS certification including Web based supplemental materials. WestNet products are not authorized for participation in buy-back, used textbook, sharing or redistribution programs.

Regarding work-based academic credit for CS and/or CIS courses, when the work experience has been evaluated and accepted as appropriate, a written examination covering the content area of the course(s) will be administered by the Department. If a passing grade is earned, academic credit will be awarded. Work-based academic credit will not be awarded for any CN course.

The Computer Science Department imposes the following requirements and restrictions on accepting computer science courses from other institutions:

- No RPG or computer applications courses will be accepted.
- Not more than 3 semester hours of FORTRAN will be accepted.
- Introduction to Information Systems and Basic Programming will not be accepted as electives.
- "System Analysis and Design" courses cannot be substituted for CS 451 or CS 452.
- "Work-based experience" credit cannot be substituted for CS 451 or CS 452.
- Locally administered certification examination.

Computer Networking Minor

A student majoring in computer science or computer information systems may complete a minor in Computer Networking by completing 16 semester hours of CN courses. Students in other majors must complete the following additional courses:

M A 308 Discrete Mathematics	3 semester hours
CS 309 Introduction to Digital Logic Design	3 semester hours
CS 317 Computer Science I (C++)	3 semester hours
CS 318 Computer Science II (C++)	3 semester hours
CS 409 Computer Organization and Architecture	3 semester hours
CS 415 Computer System Software	3 semester hours
TOTAL ADDITIONAL COURSES	**18 semester hours**

Computer Science Minor

A minor in Computer Science requires 22 semester hours distributed in the following way:

M A 308 Discrete Mathematics	3 semester hours
CS 309 Introduction to Digital Logic Design	3 semester hours
CS 309L Digital Design Lab	1 semester hour
CS 318 Computer Science II (C++)	3 semester hours
CS 372 Data Structures	3 semester hours
CS 409 Computer Organization and Architecture	3 semester hours
CS 414 Programming Language	3 semester hours
** Computer Science Elective	3 semester hours
TOTAL HOURS IN MINOR:	**22 semester hours**

The following CIS course may be taken for elective credit for a CS minor:
CIS 440. Other CIS courses will not apply toward a CS minor.

Bachelor of Science - Computer Science Major
MAJOR CODE: 11.0101A

Program components for the Bachelor of Science degree with a major in Computer Science include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

 - complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
 - complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
 - complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
 - complete all course requirements for major(s).
 - complete all course requirements for minor (if applicable).
 - complete all of the gen. ed. requirements for the degree.
 - attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
 - complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
 - complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Other Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Precalculus algebra or Precalculus algebra and trigonometry	3 semester hours	__
	Natural Sciences (lab based) required	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Other History/Behavioral or Social Science courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL COURSES):**

**Precalculus Trigonometry	3 semester hours ___
Calculus I	4 semester hours ___
Calculus II	4 semester hours ___
Calculus III	4 semester hours ___
C++	3 semester hours___
Computer Programming Class	3 semester hours ___
General electives	0-5 semester hours ___

**If Pre-calculus algebra (3 semester hours) is completed to satisfy the Area III mathematics requirement, the student should complete pre-calculus trigonometry (3 semester hours) in addition to pre-calculus algebra. Completion of pre-calculus algebra and trigonometry (4 semester hours) will satisfy both the Area III mathematics requirement and the Area V requirement for trigonometry.

TOTAL MAJOR PREREQUISITE HOURS: 19- 23 SEMESTER HOURS
TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60- 64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

Linear Algebra **or**	
M A 310 Matrices and Linear Algebra	3 semester hours___
MA 308 Discrete Mathematics	3 semester hours___
M A 320 Modern Algebra	3 semester hours___
Two of the following:	6 semester hours___ ___
MA 316 Vector Analysis,	
M A 421 Differential Equations,	
M A 423 Numerical Analysis or	
M A 430 Theory of Statistics and Probability I	
CN 301 Networking Fundamentals	2 semester hours___
CS 309 Introduction to Digital Logic Design	3 semester hours___
CS 309L Digital Design Lab	1 semester hour ___
CS 318 Computer Science II (C++)	3 semester hours___
CS 340 Assembly Language Programming	3 semester hours___
CS 372 Data Structures	3 semester hours___
CS 409 Computer Organization and Assembly Language Programming	3 semester hours___
CS 414 Programming Language	3 semester hours___
CS 415 Computer Systems Software	3 semester hours___
CS 417 Object Oriented Applications	3 semester hours___
CS 451 Software Engineering	3 semester hours___
CS 452 Senior Software Engineering Project	3 semester hours___
CS 452L Senior Software Engineering Project Lab	1 semester hour ___
CS 472 Data Structures and Algorithm Analysis	3 semester hours___
Upper Level 300/400 Computer Science Electives***	6 semester hours___ ___

***Any computer science (CS), computer information systems (CIS), or computer networking (CN) course to be used as an upper level computer science elective must have prior approval of the student's Faculty Advisor.

TOTAL PROFESSIONAL HOURS 58 SEMESTER HOURS

5. The Computer Science major must complete a minimum of 24 semester hours of upper division 300/400 level coursework in computer science (CS), Computer Information Systems (CIS), or Computer Networking (CN) at Athens State University. At least 6 semester hours of CS, CIS, or CN electives must be completed at Athens State University.

6. A minor **is not** required.

7. **GENERAL ELECTIVES 6 Semester Hours___ ___**

8. **TOTAL HOURS FOR GRADUATION 124-128 SEMESTER HOURS**

9. **Pre-assessment and Exit Examinations:**
The Department of Computer Science requires all CS majors to complete both an entrance and an exit examination. Used to place the student in the appropriate initial course in the CS or CIS curriculum, the **entrance examination** is developed by the Department: this examination will be graded locally and the results known immediately. Used to assess the CS and CIS programs of study, the **exit examination** is a nationally recognized and normed examination. For a CS major to graduate from Athens State University, the exit examination must be completed; however, the result of this examination is not a criterion for graduation.

Bachelor of Science - Computer Science Major
(Computer Information Systems Option)
MAJOR CODE: 11.0101B

Program components for the Bachelor of Science degree with a major in Computer Science - Computer Information Systems Option) include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Other Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Precalculus Algebra or higher	3 semester hours	__
	Natural Sciences (lab based) required	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Economics (ECO 231 Principles of Economics) required	3 semester hours	__
	Other History/Behavioral or Social Science courses	6 semester hours	__ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Business Calculus	3 semester hours ___
Principles of Accounting	3 semester hours ___
Business Statistics	3 semester hours ___
Intro to Computer Science	3 semester hours ___
Microcomputer Applications	3 semester hours ___
C++ Programming	3 semester hours ___
Computer Programming Course	3 semester hours ___
General electives	2 semester hours ___
TOTAL MAJOR PREREQUISITE HOURS:	**19-23 semester hours**
TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS:	**60-64 semester hours**

4. **PROFESSIONAL COURSES:**

FIN 350 Managerial Finance	3 semester hours ___
MG 346 Principles of Management	3 semester hours ___
MG 353 Project Management	3 semester hours ___
MK 331 Marketing Principles	3 semester hours ___
MA 308 Discrete Mathematics	3 semester hours ___
CS 309 Digital Logic Design	3 semester hours ___
CS 309LDigital Logic Design Lab	1 semester hour ___
CS 318 Computer Science II (C++)	3 semester hours ___
CIS 325 Decision Support Systems	3 semester hours ___
CIS 365 Visual Application Development	3 semester hours ___
CS 372 Data Structures	3 semester hours ___
CS 417 Object Oriented Applications	3 semester hours ___
CIS 440 Database Systems	3 semester hours ___
CIS 450 Human-Computer Interaction	3 semester hours ___
CS 451 Software Engineering	3 semester hours ___
CS 452 Software Engineering Project	3 semester hours ___
CS 452L Software Engineering Project Lab	1 semester hour ___
Upper Level Computer Science Electives*	6 semester hours ___ ___

*Any computer science (CS), computer information systems (CIS), or computer networking (CN) course to be used as an upper level computer science elective must have prior approval of the student's Faculty Advisor.

TOTAL PROFESSIONAL HOURS **53 SEMESTER HOURS**

5. The Computer Information Systems major must complete a minimum of 24 semester hours of upper division 300/400 level coursework in computer science (CS), Computer Information Systems (CIS), or Computer Networking (CN) at ASU. At least 6 semester hours of CS, CIS, or CN electives must be completed at Athens State University.

6. A minor is **not** required.

7. **GENERAL ELECTIVES** **11 Semester Hours** ___ ___ ___ ___
8. **TOTAL HOURS FOR GRADUATION** **124-128 SEMESTER HOURS**

9. **Pre-assessment and Exit Examination:**
The Department of Computer Science requires all CS majors to complete both an entrance and an exit examination. Used to place the student in the appropriate initial course in the CS or CIS curriculum, the **entrance examination** is developed by the Department: this examination will be graded locally and the results known immediately. Used to assess the CS and CIS programs of study, the **exit examination** is a nationally recognized and normed examination. For a CS major to graduate from Athens State University, the exit examination must be completed; however, the result of this examination is not a criterion for graduation.

Computer Information Systems Minor

A minor in Computer Information Systems requires 21 semester hours distributed in the following way:

MA 308 Discrete Mathematics	3 semester hours
CS 317 Computer Science I (C++)	3 semester hours
CS 318 Computer Science II (C++)	3 semester hours
CIS 325 Decision Support Systems	3 semester hours
CIS 365 Visual Application Development	3 semester hours
Computer Science or Computer Information Systems electives	6 semester hours
TOTAL HOURS IN MINOR:	**21 semester hours**

ENGLISH (EH)

English as an academic field encompasses both theory and practice in the reading and interpreting of literature as well as in written and oral communication. All courses are designed to engage the intelligence, excite the imagination, improve scholarship, and increase the enjoyment of literature and language. Appropriate transferred courses may be substituted, when so evaluated, for listed courses. A Bachelor of Science in Education degree is offered in Language Arts (See School of Education for degree requirements).

Bachelor of Arts - English Major

MAJOR CODE: 23.0101

Program components for the Bachelor of Arts degree with a major in English include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Other Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent required	3 semester hours	__
	Natural Sciences (lab based) required	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Other History/Behavioral or Social Science courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

General Education Electives 12 semester hours ___ ___ ___ ___
CIS 146 Microcomputer Applications or
CIS 301 Problem Solving with Computers 3 semester hours ___
General electives 8 semester hours ___ ___ ___

TOTAL MAJOR PREREQUISITE COURSES 19-23 semester hours

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS 60-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

EH 312 Dramatic Literature 3 semester hours ___
EH 325 Myth: Ritual and Culture 3 semester hours ___
EH 414 History of the English Language 3 semester hours ___
EH 431 Poetry and Poetics 3 semester hours ___
EH 425 Shakespeare: The Sonnets and the Plays 3 semester hours ___
EH 433 Fiction 3 semester hours ___
EH 452 Chaucer and Medieval Literature 3 semester hours ___

Electives in English 18 semester hours ___ ___ ___ ___ ___ ___

Choose from the following courses:
EH 304 Southern Literature
EH 307 Major Authors I
EH 308 Major Authors II
EH 314 Nineteenth Century British Studies
EH 316 American Masterpieces
EH/RE 416 Interpreting the Text
EH 440 African-American Studies
EH 450 Renaissance Literature 1550-1680
EH 451 Restoration/Eighteenth Century

TOTAL PROFESSIONAL HOURS: 39 SEMESTER HOURS

5. A minor is required. 18 Semester Hours

6. **GENERAL ELECTIVES 7 Semester Hours___ ___ ___**

7. **TOTAL HOURS FOR GRADUATION: 124-128 SEMESTER HOURS**

English Minor

A minor in English consists of 21 semester hours of English coursework of which 12 semester hours must be taken at Athens State University including the following courses or their equivalents:

EH 312 Dramatic Literature 3 semester hours
EH 425 Shakespeare: The Sonnets and the Plays 3 semester hours
EH 431 Poetry and Poetics 3 semester hours

Choose from the following courses 12 semester hours
EH 304 Southern Literature
EH 307 Major Authors I
EH 308 Major Authors II
EH 314 Nineteenth Century British Studies
EH 316 American Masterpieces
EH 325 Myth, Ritual and Culture
EH 413 Composition for Teachers
EH/RE 416 Interpreting the Text
EH 433 Fiction
EH 440 African-American Studies
EH 450 Renaissance Literature 1550-1680
EH 451 Restoration/Eighteenth Century
EH 452 Chaucer and Medieval Literature

TOTAL 21 semester hours

HEALTH SCIENCE

Bachelor of Science - Health Science Major
MAJOR CODE: 51.9999

Program components for the Bachelor of Science degree with a major in Health Science include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Other Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Precalculus algebra or higher	3 semester hours	__
	Survey of Physics or equivalent	3 semester hours	__
	Natural Sciences (lab based) required	4 semester hours	__
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Other History/Behavioral or Social Science courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

CIS 146 Microcomputer Applications or CS 301 Problem Solving With Computers 3 semester hours___
Legal Environment of Business 3 semester hours___
General Electives 17 semester hours___ ___ ___
___ ___ ___

TOTAL MAJOR PREREQUISITE HOURS: 19-23 semester hours

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 semester hours

4. **PROFESSIONAL COURSES:**

The Health Science major culminates in a baccalaureate degree for nursing professionals, or for students who are certified in a para-medical field such as dental hygiene, medical records, medical technology, health physics, or animal health technology. Professional course requirements for the major may be satisfied by completion of Area V and Professional Course requirements indicated for one of the following Bachelor of Science in Education degree programs: Biology, Chemistry, Comprehensive Science, or Mathematics. Otherwise, professional course requirements may be satisfied by completion of a minimum of 24 semester hours of Faculty Advisor approved coursework from one of the following departments: Biology, Chemistry, Physics, Mathematics, Computer Science. The student seeking a position involving supervision of personnel may wish to consider the following management option:

MG 320 Business Communication 3 semester hours ___
MG 346 Principles of Management 3 semester hours ___
MG 349 Human Resource Management 3 semester hours ___
MG 375 Organizational Behavior 3 semester hours ___
PS 368 Industrial and Personnel Psychology 3 semester hours ___
SO 304 Sociology of Work **or**
Faculty Advisor approved School of Business elective 3 semester hours ___
Electives 6 semester hours ___ ___
.....

TOTAL PROFESSIONAL HOURS: 24 SEMESTER HOURS

5. **The Health Science major must complete 64 semester hours of coursework at a baccalaureate degree-granting institution, 42 semester hours of which must be upper division 300/400 level coursework, and 33 of the last 39 semester hours of which must be completed at Athens State University.**

6. A minor **is not** required.

7. **GENERAL ELECTIVES 40 Semester Hours**___ ___ ___ ___
___ ___ ___ ___
___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION 124-128 SEMESTER HOURS**

HISTORY (HY)

The history faculty seek to develop in its students an appreciation of our cultural heritage, an understanding of the world in which we live, and an awareness of the future. It strives to develop in its majors the research abilities necessary for graduate work. Through courses of interest to the non-major; it makes the student aware of the cultural legacy from Europe, England, and the United States and affords an opportunity to study other areas of the world.

Bachelor of Arts - History Major

MAJOR CODE: 45.0801

Program components for the Bachelor of Arts degree with a major in History include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours** __ __
Area II.	**Humanities/Fine Arts (12 semester hours)**	
	At least one fine arts course	3 semester hours __
	At least one literature course	3 semester hours __
	Other Humanities/Fine Arts courses	6 semester hours __ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**	
	Finite math or its equivalent required	3 semester hours __
	Natural Sciences (lab based) required	8 semester hours __ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**	
	At least one history course	3 semester hours __
	Other History/Behavioral or Social Science courses	9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

The history major should complete a second 6 semester hour sequence in history in addition to the history sequence satisfying the Area IV requirement. For example, the student taking 6 semester hours of World History under Area IV, also should complete a 6 semester hour sequence in History of Western Civilization or a 6 semester hour sequence in United States History. (In addition to Area IV) 6 semester hours ___ ___
Electives in History 6 semester hours ___ ___
CIS 146 Microcomputer Applications or
CIS 301 Problem Solving with Computers 3 semester hours ___
Free Electives. 8 semester hours ___ ___ ___
TOTAL MAJOR PREREQUISITE HOURS: 19-23 semester hours

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 semester hours

4. **PROFESSIONAL COURSES:**
300 and 400 level courses:
HY 300 Historiography 3 semester hours ___
American History 12 semester hours ___ ___ ___
European History 12 semester hours ___ ___ ___
Non-Western History 6 semester hours ___ ___
TOTAL PROFESSIONAL HOURS: 33 semester hours

5. The student should realize that for graduate school a reading knowledge of one or two languages generally is required.

6. A minor is required. 18 semester hours

7. **GENERAL ELECTIVES 13 Semester Hours** ___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION 124-128 semester hours**

HISTORY MINOR

History is an approved area of study for a minor. The student must complete at least 18 semester hours of history distributed as follows:

American History 6 semester hours
European History 6 semester hours
Non-Western History 3 semester hours
History Elective 3 semester hours
Total 18 semester hours

INSTRUMENTATION (IT)

The Instrumentation program prepares graduates for careers as instrumentation technologists in such diverse areas as data acquisition, process control, system integration, installation, and repair for laboratories and medical facilities, as well as for industries such as power generation, chemical processing, pulp and paper processing, electronic fabrication, and heavy manufacturing.

The program is intended as a terminal degree program for students who do not intend to pursue an education beyond the baccalaureate level. A student who wishes to pursue a program which offers a greater level of preparation and which serves as an entry point for graduate study should consider the Bachelor of Science in Physics or Instrumentation Physics.

Bachelor of Science - Instrumentation Major
MAJOR CODE: 41.9999

Program components for the Bachelor of Science degree with a major in Instrumentation include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

 - complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
 - complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
 - complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
 - complete all course requirements for major(s).
 - complete all course requirements for minor (if applicable).
 - complete all of the gen. ed. requirements for the degree.
 - attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
 - complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
 - complete the teacher certification requirements (if applicable).

 EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. **Written Composition** **6 semester hours** __ __

Area II. **Humanities/Fine Arts (12 semester hours)**

At least one fine arts course	3 semester hours	__
At least one literature course	3 semester hours	__
Other Humanities/Fine Arts courses	6 semester hours	__ __

Area III. **Mathematics and Natural Sciences (11 semester hours)**

Precalculus Algebra and Trig or Precalculus Trigonometry	3 semester hours	__
General Physics I (Calculus based)	4 semester hours	__
General Physics II (Calculus based)	4 semester hours	__

Area IV. **History/Behavioral and Social Sciences (12 semester hours)**

At least one history course	3 semester hours	__
Other History/Behavioral or Social Science courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS **41 semester hours**

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Calculus I	4 semester hours	__
General electives (Should be fulfilled by completion of introductory electronics courses (e.g., AC and DC circuits, semiconductor electronics, analog electronics, digital electronics, microprocessors, trouble shooting and repair).	19-20 semester hours	__ __ __ __ __ __
TOTAL MAJOR PREREQUISITE COURSES:	**19-23 semester hours**	
TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS:	**60-64 Semester hours**	

4. **PROFESSIONAL COURSES:**

MA 304 Calculus II	3 semester hours	___
CIS 301 Problem Solving With Computers	3 semester hours	___
CH 301 Introductory Chemistry	3 semester hours	___
PY 303 Calculus Physics III (Modern Physics)	4 semester hours	___
IT 306 Interfacing Techniques	4 semester hours	___
IT 316 Applied Digital Design	4 semester hours	___
IT 320 Math Methods for Instrumentation	4 semester hours	___
IT 400 Advanced Analog Instrumentation	4 semester hours	___
IT 401 Applied Data Communications	4 semester hours	___
IT 420 Electro-Optics	4 semester hours	___
IT 425 Introduction to Robotics	4 semester hours	___
IT 440 Process Control Instrumentation	4 semester hours	___
IT 441 Computer Instrumentation	4 semester hours	___
Electives (Faculty Advisor approved courses in instrumentation, physics, mathematics or computer science)	8 semester hours	___ ___
TOTAL PROFESSIONAL HOURS:	**57 SEMESTER HOURS**	

5. The Instrumentation major must complete a minimum of 15 semester hours of upper division 300/400 level instrumentation coursework at Athens State University.

6. A minor is not required.

7. **GENERAL ELECTIVES**	**7 semester hours**	___ ___
8. **TOTAL HOURS FOR GRADUATION**	**124-128 semester hours**	

Instrumentation Minor

The minor must include the following courses or their approved equivalents of which at least 9 semester hours must be taken at Athens State University.

Introductory Level Electronics Courses (Should include background in AC and DC Circuits, Semiconductor Electronics, Analog and Digital Electronics, Microprocessors, and Troubleshooting)	15 semester hours
Calculus I, II (MA 303, 304)	8 semester hours
IT 306 Interfacing Techniques	4 semester hours
IT 316 Applied Digital Design	4 semester hours
IT Electives	8 semester hours
Total:	**39 semester hours**

INSTRUMENTATION PHYSICS

The Instrumentation Physics program prepares the graduate for a career as a research laboratory physicist, with special emphasis on experimental automation, for entry into a number of experimental fields including engineering, medicine, medical research, and for graduate degree programs in physics and related disciplines.

Bachelor of Science - Instrumentation Physics
MAJOR CODE: 40.0801B

Program requirements for the Bachelor of Science degree with a major in Instrumentation Physics include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED..

2. **GEN. ED. REQUIREMENTS:**

Area I. **Written Composition** **6 semester hours** __ __

Area II. **Humanities/Fine Arts (12 semester hours)**

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. **Mathematics and Natural Sciences (11 semester hours)**

Finite math or its equivalent required 3 semester hours __

Natural Sciences (lab based) required 8 semester hours __ __

Area IV. **History/Behavioral and Social Sciences (12 semester hours)**

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Pre-calculus Trigonometry	3 semester hours	___
Calculus I	4 semester hours	___
Calculus II	4 semester hours	___
Calculus III	4 semester hours	___
General Physics I (Calculus-based)	4 semester hours	___
General Physics II (Calculus-based)	4 semester hours	___
Electives	0-3 semester hours	___

Students enrolling in the Instrumentation Physics program are expected to have some background in electronics. While many students may fulfill this expectation through work experience or military training, students who are interested in the program who do not have this background should fulfill some of the general electives by completing courses in introductory electronics (e.g., AC and DC circuits, semiconductor electronics, analog electronics, digital electronics, trouble shooting and repair).

*If Pre-calculus algebra (3 semester hours) is completed to satisfy the Area III mathematics requirement, the student should complete pre-calculus trigonometry (3 semester hours) in addition to pre-calculus algebra. Completion of pre-calculus algebra and trigonometry (4 semester hours) will satisfy both the Area III mathematics requirement and the Area V requirement for trigonometry.

TOTAL MAJOR PREREQUISITE HOURS 20-23 SEMESTER HOURS

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 semester hours

4. **PROFESSIONAL COURSES:**

Linear Algebra or MA 310 Matrices and Linear Algebra or MA 316 Vector Analysis or MA 401 Complex Analysis or MA 428 Partial Differential Equations	3 semester hours	___
MA 421 Differential Equations	3 semester hours	___
PY 303 Calculus Physics III (Modern Physics)	4 semester hours	___
PY 306 Thermal Physics	4 semester hours	___
PY 309/310 Mechanics I, II	6 semester hours	___ ___
PY 312/412 Electricity and Magnetism I, II	6 semester hours	___ ___
PY 415 Intermediate Quantum Physics I	3 semester hours	___
IT 306 Interfacing Techniques	4 semester hours	___
IT 316 Applied Digital Design	4 semester hours	___
IT 425 Introduction to Robotics	4 semester hours	___
IT 440 Process Control Instrumentation	4 semester hours	___
CIS 301 Problem Solving With Computers	3 semester hours	___
Upper Level 300/400 instrumentation or physics elective	3 semester hours	___
TOTAL PROFESSIONAL HOURS:	**48 SEMESTER HOURS**	

5. The Instrumentation Physics major must complete a minimum of 15 semester hours of upper division 300/400 level instrumentation or physics coursework at Athens State University.

6. A minor is not required.

7. **GENERAL ELECTIVES 16 semester hours** ___ ___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION 124-128 SEMESTER HOURS**

JUSTICE STUDIES (JS)

The Justice Studies program enhances student opportunities in the criminal justice field. These opportunities include professional roles in law enforcement and correctional administration, security positions in private industry, judicial administration, and probation and parole.

Students pursuing degrees in Justice Studies will be able to apply knowledge attained about criminal law and processes, theoretical concepts of crime causation and control, and will acquire competency in understanding research regarding management practices and policymaking within criminal justice agencies. Justice Studies students will have the opportunity to apply technical knowledge of criminal justice, and research skills in an internship which allows for varied learning experiences in actual agency settings.

Bachelor of Science - Justice Studies Major

MAJOR CODE: 43.0104

Program components of the Bachelor of Science degree with a major in Justice Studies include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

 - complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
 - complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
 - complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
 - complete all course requirements for major(s).
 - complete all course requirements for minor (if applicable).
 - complete all of the gen. ed. requirements for the degree.
 - attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
 - complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
 - complete the teacher certification requirements (if applicable).

 EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS (Curriculum Core Areas I-IV):**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Additional courses in Humanities/Fine Arts	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent	3 semester hours	__
	Natural Sciences (lab based) required	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Additional courses in History/Behavioral and Social Sciences	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PREPROFESSIONAL)**

Introduction to Criminal Justice	3 semester hours	___
Law Enforcement or Policing **or** Corrections **or** Security	3 semester hours	___
CIS 146 Microcomputer Applications or CIS 301 Problem Solving with Computers	3 semester hours	___
General electives	14 semester hours	___ ___ ___ ___
TOTAL MAJOR PREREQUISITE HOURS:	**19-23 semester hours**	

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: . 60-64 semester hours

4. **PROFESSIONAL COURSES:**

JS 301 Criminal Justice Process	3 semester hours	___
JS/PO 302 Criminal Law	3 semester hours	___
JS 400 Law Enforcement in America	3 semester hours	___
JS/SO 401 Adult Corrections	3 semester hours	___
JS/SO 452 Advanced Criminology	3 semester hours	___
PO 303 Comparative State and Local Government	3 semester hours	___
PO/PS/SO 342 Methods of Behavioral Science Research	3 semester hours	___
MG/PSA/PO 377 Public Administration	3 semester hours	___
JS/PO/PSA 455 Public Administration Ethics	3 semester hours	___
JS/PSA 465 Senior Research Project	4 semester hours	___
Justice Studies Electives	6 semester hours	___ ___
TOTAL PROFESSIONAL HOURS:	**37 semester hours**	

5. A minimum of 27 semester hours of upper division JS/PO/PSA coursework must be completed at Athens State University.

6. A minor **is not** required.

7. **GENERAL ELECTIVES** **27 Semester Hours** ___ ___ ___ ___ ___ ___ ___ ___ ___

TOTAL HOURS FOR GRADUATION **124-128 semester hours**

Justice Studies Minor

A minor in Justice Studies requires the completion of eighteen semester hours of coursework to consist of the following:

JS 301 Criminal Justice Process	3 semester hours	___
JS 302 Criminal Law	3 semester hours	___
JS 452 Advanced Criminology	3 semester hours	___
Justice Studies electives	9 semester hours	___ ___ ___
Total	**18 semester hours**	

LIBERAL STUDIES

The Liberal Studies program is designed to benefit students who seek progression and mobility in their educational and career goals. The program provides maximum flexibility in course selection while allowing the student to concentrate on subject matter of particular relevance.

The Liberal Studies program also is intended for those students who wish to enrich and satisfy their personal goals through non-specialized collegiate study.

While no specified major courses are required, the student must comply with all requirements for the Bachelor of Science degree and applicable university requirements (See General University Requirements).
The following limitations apply to the Bachelor of Science in Liberal Studies:

(a) A minor is not permitted in the Liberal Studies program.
(b) Liberal Studies may not be considered as a minor to any other degree program.
(c) Liberal Studies may not be considered as a second major with any other degree program.
(d) The Bachelor of Science in Liberal Studies degree will be awarded only to students who have not declared a major in another program of study.
(e) The Bachelor of Science in Liberal Studies degree will not be awarded concurrently with any other major.

Bachelor of Science in Liberal Studies
MAJOR CODE: 24.0101

Program components for the Bachelor of Science degree with a major in Liberal Studies include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**

To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS (Curriculum Core Areas I-IV):**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent	3 semester hours	__
	Natural Sciences (lab based) required	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Additional History/Behavioral and Social Science courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **PRE-PROFESSIONAL AND ELECTIVE COURSES:**

CIS 146 Microcomputer Applications or
CIS 301 Problem Solving with Computers 3 semester hours ___
General Electives 19-20 semester hours

_____ _____ _____ _____

_____ _____ _____ _____

TOTAL PREPROFESSIONAL HOURS 20-23 SEMESTER HOURS
TOTAL GEN. ED. REQUIREMENTS & PREPROFESSIONAL HOURS 60-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

General electives at the 300 and 400 level 64 semester hours

_____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

_____ _____ _____ _____

5. **TOTAL HOURS FOR DEGREE 124-128 SEMESTER HOURS**

MATHEMATICS (MA)

The Department of Mathematics offers majors leading to the Bachelor of Science and the Bachelor of Science in Education (See School of Education for degree requirements) degrees which will prepare the graduate for scientific endeavors requiring detailed and exact scientific analysis, or for a rewarding career as a high school and/or middle school mathematics teacher. A mathematics major combined with a Computer Science minor will open many career opportunities for the graduate.

Bachelor of Science - Mathematics Major
MAJOR CODE: 27.0101

Program components for the Bachelor of Science degree with a major in Mathematics include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**

To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS (Curriculum Core - Areas I-IV):**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Additional Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Precalculus Algebra	3 semester hours	__
	Calculus Based Physics I and Calculus Based Physics II	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Additional History/Behavioral and Social Science Courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PREPROFESSIONAL)**

Students planning to major in mathematics at Athens State University are required to complete the following courses:

CIS 146 Microcomputer Application or CS 301 Problem Solving With Computers	3 semester hours	___
Pre-Calculus Trigonometry	3 semester hours	___
Calculus Sequence	12 semester hours	___ ___ ___ ___
General electives	1-5 semester hours	___ ___
TOTAL MAJOR PREREQUISITE HOURS:	**19-23 semester hours**	
TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS:	**60-64 Semester hours**	

4. **PROFESSIONAL COURSES:**

MA 308 Discrete Mathematics	3 semester hours	___
MA 310 Matrices and Linear Algebra	3 semester hours	___
MA 320 Modern Algebra	3 semester hours	___
MA 330 Advanced Mathematical Software	3 semester hours	___
MA 421 Differential Equations	3 semester hours	___
Plus four mathematics electives from the following:	12 semester hours	___ ___ ___ ___

** MA 314 College Geometry
MA 316 Vector Analysis
* MA 401 Complex Analysis
MA 423 Numerical Analysis
MA 428 Partial Differential Equations
MA 331 Applied Statistics and Probability I
MA 431 Applied Statistics and Probability II
** MA 441 Special Topics in Mathematics
MA 445 Mathematical Modeling and Simulation
* MA 450 Advanced Calculus I
* MA 451 Advanced Calculus II
* MA 452 Real Analysis

Computer Programming Language Sequence (preferably CS 317, CS 318)	6 semester hours	___ ___
TOTAL PROFESSIONAL HOURS:	**33 semester hours**	

*Recommended if planning to attend graduate school.
**Must be approved by Chair of the Department of Mathematics.

5. The Mathematics major must complete a minimum of 12 semester hours of upper division 300/400 level mathematics coursework at Athens State University. To be used toward completing a Mathematics major at Athens State, any mathematics course transferred to Athens State must be a grade of C or higher. Mathematics majors must maintain a 2.5 G.P.A. in mathematics courses taken at Athens State University.

6. A minimum 18 semester hour Faculty Advisor approved minor is required. **18 semester hours**

7. **GENERAL ELECTIVES** **13 semester hours**
8. **TOTAL HOURS FOR GRADUATION** **124-128 semester hours**

9. **ASSESSMENT/ EXIT EXAMS**

Assessment exams and an exit exam are required. For most mathematics courses, an assessment exam will be administered by the instructor. The exit exam is administered by the Coordinator of Testing; the student should contact this office for policies, procedures, and times for the exam. It is the student's responsibility to schedule and take the exit exam. It is suggested that the exit exam be taken during the term prior to the student's last semester. As a condition for graduation, all B.S. mathematics majors must satisfactorily complete an exit exam. The exit exam covers algebra, trigonometry, the calculus sequence, modern algebra, linear algebra, and differential equations.

Mathematics Minor

A minor in Mathematics requires 24 semester hours of mathematics including 9 semester hours of upper division coursework, at least 9 semester hours of which must be taken at Athens State University. The following courses must be included:

Calculus I, II, III, IV (MA 303, 304, 305, 306)	12 semester hours
Linear Algebra (MA 310)	3 semester hours
MA 421 Differential Equations	3 semester hours
Upper Division Electives (Above MA 306)	6 semester hours
Total	**24 semester hours**

PHYSICS (PY)

The Physics program prepares the graduate for a career as a research laboratory physicist, for entry into a number of related fields including engineering, medicine, medical research, geology/geophysics, instrumentation, and for graduate degree programs in physics and related disciplines.

Bachelor of Science - Physics Major

MAJOR CODE: 40.0801A

Program components for a Bachelor of Science degree with a major in Physics include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of fifteen semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than fifteen semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Other Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Precalculus Algebra or Precalculus Algebra and Trigonometry	3 semester hours	__
	College Chemestry I and II	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Other History/Behavioral or Social Science courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

**Pre-calculus Trigonometry	3 semester hours	___
General Physics I (Calculus based)	4 semester hours	___
General Physics II (Calculus based)	4 semester hours	___
Calculus I	4 semester hours	___
Calculus II	4 semester hours	___
Calculus III	4 semester hours	___
Electives	0-3 semester hours	___

**If Pre-calculus algebra (3 semester hours) is completed to satisfy the Area III mathematics requirement, the student should complete pre-calculus trigonometry (3 semester hours) in addition to pre-calculus algebra. Completion of pre-calculus algebra and trigonometry (4 semester hours) will satisfy both the Area III mathematics requirement and the Area V requirement for trigonometry.

TOTAL MAJOR PREREQUISITE HOURS: 20-23 SEMESTER HOURS

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

MA 310 Matrices and Linear Algebra	3 semester hours	___
MA 421 Differential Equations	3 semester hours	___
PY 303 Calculus Physics III (Modern Physics)	4 semester hours	___
PY 306 Thermal Physics	4 semester hours	___
PY 309, 310 Mechanics I, II	6 semester hours	___ ___
PY 312, 412 Electricity and Magnetism I, II	6 semester hours	___ ___
PY 415 Intermediate Quantum Physics I	3 semester hours	___
Total Required Physics Core	**29 semester hours**	

MATHEMATICS OPTION: (15 HOURS)
(Five mathematic electives from the six provided)

MA 330 Advanced Mathematical Software	3 semester hours	___
MA 316 Vector Analysis	3 semester hours	___
MA 401 Complex Analysis	3 semester hours	___
MA 423 Numerical Analysis	3 semester hours	___
MA 428 Partial Differential Equations	3 semester hours	___
MA 445 Mathematical Modeling and Simulation	3 semester hours	___

CHEMISTRY OPTION: (19 HOURS)

CH 311,312 Organic Chemistry I, II	8 semester hours	___ ___
CH 324 Analytical Chemistry	4 semester hours	___
CH 410 Instrumental Analysis	4 semester hours	___
CH 410L Instrumental Analysis Lab		
CH 420 Intermediate Inorganic Chemistry	3 semester hours	___

COMPUTER SCIENCE OPTION (19 HOURS)

MA 308 Discrete Math	3 semester hours	___
CS 317, 318 Computer Science I and II (or) two high level computer language courses	6 semester hours	___ ___
CS 372 Data Structures	3 semester hours	___
Two computer science electives from the following six courses:	6-7 semester hours	___ ___

CS 309 Introducion to Digital Logic
CS 409 Computer Architecture
CS 414 Programming Languages
CS 415 Operating Systems
CS 417 Object Oriented Programming
CS 472 Algorithms Analysis

TOTAL PHYSICS OPTIONS: 15-19 SEMESTER HOURS
TOTAL PHYSIC MAJOR HOURS WITH OPTIONS: 44-49 SEMESTER HOURS
TOTAL ELECTIVE HOURS: 15-20 SEMESTER HOURS

Physics Minor

A minor in Physics requires 24 semester hours of Physics coursework including 15 semester hours of upper division coursework, at least 9 semester hours of which must be taken at Athens State University. Strict adherence to course prerequisites must be observed.

The minor must include the following courses or their approved equivalents:

General Physics with Calculus I, II	8 semester hours
PY 303 Calculus Physics III (Modern Physics)	4 semester hours
Upper level Physics courses to be determined by Physics Faculty Advisor	12 semester hours
Total	**24 semester hours**

POLITICAL SCIENCE (PO)

Political Science prepares students for careers in law, teaching, and public administration. The Bachelor of Arts degree requires a minor in another field. The Bachelor of Science degree does not require a minor. Scholarships are available to qualified students majoring in Political Science.

Bachelor of Arts - Political Science Major
MAJOR CODE: 45.1001A

Program components for the Bachelor of Arts degree with a major in Political Science include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. **Written Composition** **6 semester hours** __ __

Area II. **Humanities/Fine Arts (12 semester hours)**

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. **Mathematics and Natural Sciences (11 semester hours)**

Finite math or its equivalent required 3 semester hours __

Natural Sciences (lab based) required 8 semester hours __ __

Area IV. **History/Behavioral and Social Sciences (12 semester hours)**

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Introduction to Political Science	3 semester hours	___
Western Civilization	3 semester hours	___
American National Government	3 semester hours	___
State and Local Government **or** Foreign National Government	3 semester hours	___
CIS 146 Microcomputer Applications or CIS 301 Problem Solving with Computers	3 semester hours	___
General electives	8 semester hours	___ ___ ___
TOTAL MAJOR PREREQUISITE HOURS:	**19-23 semester hours**	

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 semester hours

4. **PROFESSIONAL COURSES:**

PO 303 Comparative State and Local Government	3 semester hours	___
PO 304 Problems of American Government	3 semester hours	___
PO 307 American Constitutional Law **or** PO 364 Civil Liberties	3 semester hours	___
PO 308 America and the World	3 semester hours	___
PO 342 Methods of Behavioral Science Research	3 semester hours	___
PO 351 American Public Policy	3 semester hours	___
PO 377 Public Administration	3 semester hours	___
PO 453 International Relations	3 semester hours	___
PO 465 Senior Research Project	4 semester hours	___
Electives in Political Science	9 semester hours	___ ___ ___
TOTAL PROFESSIONAL HOURS:	**37 semester hours**	

5. A minimum of 27 semester hours of upper division JS/PO/PSA coursework should be completed at Athens State University.

6. A Faculty Advisor approved minor is required. 18 Semester Hours

7. **GENERAL ELECTIVES** **9 Semester Hours** ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION** **124-128 Semester hours**

Bachelor of Science - Political Science Major
MAJOR CODE: 45.1001B

Program components for the Bachelor of Science degree with a major in Political Science include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. Written Composition **6 semester hours** __ __

Area II. Humanities/Fine Arts (12 semester hours)

At least one fine arts course 3 semester hours __
At least one literature course 3 semester hours __
Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. Mathematics and Natural Sciences (11 semester hours)

Finite math or its equivalent required 3 semester hours __
Natural Sciences (lab based) required 8 semester hours __ __

Area IV. History/Behavioral and Social Sciences (12 semester hours)

At least one history course 3 semester hours __
Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Introduction to Political Science 3 semester hours ___
Western Civilization 3 semester hours ___
American National Government 3 semester hours ___
State and Local Government or
Introduction to Computer Science (CS 146 or CS 301) 3 semester hours ___
Foreign National Government 3 semester hours ___
CIS 146 Microcomputer Applications or
CIS 301 Problem Solving with Computers 3 semester hours ___
General electives 5 semester hours ___ ___
TOTAL MAJOR PREREQUISITE HOURS: **19-23 semester hours**

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 semester hours

4. **PROFESSIONAL COURSES:**

PO 303 Comparative State and Local Government 3 semester hours ___
PO 304 Problems of American Government 3 semester hours ___
PO 307 American Constitutional Law or PO 364 Civil Liberties 3 semester hours ___
PO 308 America and the World 3 semester hours ___
PO 342 Methods of Behavioral Science Research 3 semester hours___
PO 351 American Public Policy 3 semester hours ___
PO 377 Public Administration 3 semester hours ___
PO 453 International Relations 3 semester hours ___
PO 465 Senior Research Project 4 semester hours ___
Electives in Political Science 9 semester hours ___ ___ ___

TOTAL PROFESSIONAL HOURS: **37 semester hours**

5. A minimum of 27 semester hours of upper division JS/PO/PSA coursework should be completed at Athens State University.

6. A minor is **not** required.

7. **GENERAL ELECTIVES** **27 semester hours** ___ ___ ___ ___ ___ ___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION** **124-128 SEMESTER HOURS**

Political Science Minor

The student seeking a minor in political science should complete eighteen semester hours in political science coursework to include:

American National Government or
PO 304 Problems of American Government 3 semester hours
PO 303 Comparative State and Local Government or PO 305 Alabama Government 3 semester hours
PO 308 America and the World or PO 453 International Relations 3 semester hours
Political Science Electives 9 semester hours
Total **18 semester hours**

PSYCHOLOGY (PS)

Students in psychology are offered a wide variety of courses designed to provide the basic knowledge and skills which are considered to be the basic foundation of the field of psychology.

Students entering the program will be assigned a Faculty Advisor during the first term. The student may consult the list posted outside the departmental office to determine his/her Faculty Advisor. The student should then meet his/her Faculty Advisor as soon as possible to review requirements of his/her chosen major.

During the last term, the student will be required to take an exit examination in psychology. At the present time, no passing score is required, but the student is encouraged to do as well as possible to help determine how much they have gained from their program of study.

Bachelor of Arts - Psychology Major
MAJOR CODE: 42.0101A

This program is designed for the student who ultimately wants to earn an advanced graduate degree in psychology. The program emphasizes high academic achievement and mastery of research methodology, which should prepare the student for high scores on the GRE and admission to nationally recognized graduate programs in psychology. Before admission to this degree program, the student must have completed pre-calculus algebra (or a higher level math course). After admission, the student is encouraged to take statistics and experimental psychology as soon as possible and then participate in a supervised research project. The specific objectives of this degree are to

- provide a knowledge base of psychology including major theories and research findings.
- teach a variety of statistical, methodological, and critical thinking skills which are needed for psychological research.
- instill an appreciation for the ethical principles governing the field of psychology.
- help the student achieve the highest possible score on the Graduate Record Examination.
- assist the student with application to nationally recognized graduate programs in psychology.

Program components for the Bachelor of Arts degree with a major in Psychology include:

1. APPLICABLE GENERAL UNIVERSITY REQUIREMENTS

To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Written Composition 6 semester hours __ __

Humanities/Fine Arts (12 semester hours)

At least one fine arts course 3 semester hours __
At least one literature course 3 semester hours __
Other Humanities/Fine Arts courses 6 semester hours __ __

Mathematics and Natural Sciences (11 semester hours)

Finite math or its equivalent required 3 semester hours __
Natural Sciences (lab based) required 8 semester hours __ __

History/Behavioral and Social Sciences (12 semester hours)

At least one history course 3 semester hours __
Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS **41 semester hours**

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

General Psychology	3 semester hours	___
CIS 146 Microcomputer Applications or		
CIS 301 Problem Solving with Computers	3 semester hours	___
Electives in Psychology	6 semester hours	___ ___
General electives	11 semester hours	___ ___ ___ ___
TOTAL PRE-PROFESSIONAL HOURS:	**23 SEMESTER HOURS**	

TOTAL GEN. ED. REQUIREMENTS & PRE-PROFESSIONAL HOURS: 64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

The following courses must be completed at the 300/400 level:

PS 331 Social Psychology	3 semester hours	___
PS 332 Child Psychology or PS 334 Adolescent Psychology	3 semester hours	___
PS 336 Psychology of Learning or PS 410 History and Systems of Psychology	3 semester hours	___
PS 341 Statistics with Advanced Topics in Behavioral Sciences	3 semester hours	___
PS 352 Abnormal Psychology	3 semester hours	___
PS 380 Experimental Psychology	4 semester hours	___
PS 406 Physiological Psychology	3 semester hours	___
PS 420 Cognitive Psychology	3 semester hours	___
Faculty Advisor approved Psychology electives	12 semester hours	___ ___ ___ ___
TOTAL PROFESSIONAL HOURS:	**37 SEMESTER HOURS**	

5. A minimum of 24 semester hours of upper division psychology coursework must be completed at Athens State University.

6. A Faculty Advisor approved minor is required. 18 semester hours

7. **GENERAL ELECTIVES** **9 Semester Hours** ___ ___ ___

The student is encouraged to select electives which will prepare him/her to obtain the highest possible score on the Graduate Record Examination (GRE). Such courses would include geometry, additional literature courses, and science courses.

8. **TOTAL HOURS FOR GRADUATION: 128 SEMESTER HOURS**

Bachelor of Science - Psychology Major
MAJOR CODE: 42.0101B

This program is designed for the student who wants to major in psychology and have the freedom to select a broad range of electives. It provides a strong foundation in psychology and a solid general education background. The specific objectives of this degree program are to:

- provide a knowledge base of psychology including major theories and research findings.
- teach a variety of clinical skills which will be useful in applied settings.
- instill an appreciation for the ethical principles governing the field of psychology.

Program components for the Bachelor of Science degree with a major in Psychology include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. **Written Composition** **6 semester hours** __ __

Area II. **Humanities/Fine Arts (12 semester hours)**

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. **Mathematics and Natural Sciences (11 semester hours)**

Finite math or its equivalent required 3 semester hours __

Natural Sciences (lab based) required 8 semester hours __ __

Area IV. **History/Behavioral and Social Sciences (12 semester hours)**

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

General Psychology	3 semester hours ___
CIS 146 Microcomputer Applications or	
CIS 301 Problem Solving with Computers	3 semester hours ___
Electives in Psychology	6 semester hours ___ ___
General electives	11 semester hours ___ ___ ___ ___
TOTAL MAJOR PREREQUISITE HOURS	**23 semester hours**

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

The following courses must be completed at the 300/400 level:

PS 331 Social Psychology	3 semester hours___
PS 332 Child Psychology **or** PS 334 Adolescent Psychology	3 semester hours___
PS 336 Psychology of Learning **or**	
PS 410 History and Systems of Psychology	3 semester hours___
PS 341 Statistics with Advanced Topics in Behavioral Science	3 semester hours___
PS 352 Abnormal Psychology	3 semester hours___
PS 380 Experimental Psychology	4 semester hours___
PS 420 Cognitive Psychology	3 semester hours___
PS 406 Physiological Psychology	3 semester hours___
Faculty Advisor approved Psychology electives	12 semester hours___ ___ ___ ___
TOTAL PROFESSIONAL HOURS:	**37 SEMESTER HOURS**

5. A minimum of 24 semester hours of upper division psychology coursework must be completed at Athens State University.

6. A minor is **not** required.

7. **GENERAL ELECTIVES** **27 semester hours** ___ ___ ___ ___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION:** **128 SEMESTER HOURS**

Psychology Minor

Students who desire a minor in psychology must complete the following courses:

General Psychology	Prerequisite
PS 420 Cognitive Psychology or PS 336 Psychology of Learning	3 semester hours
PS 332 Child Psychology or PS 334 Adolescent Psychology	3 semester hours
PS 352 Abnormal Psychology	3 semester hours
PS 406 Physiological Psychology	3 semester hours
Psychology Elective	3 semester hours
Total	**18 semester hours**

Bachelor of Science - Public Safety Administration Major

MAJOR CODE: 43.0201

Program components of the Bachelor of Science degree with a major in Public Safety Administration include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Other Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent required	3 semester hours	__
	Natural Sciences (lab based) required	8 semester hours	__ __
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Other History/Behavioral or Social Science courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**
The Public Safety Administration major must complete
CIS 146 Microcomputer Applications or
CIS 301 Problem Solving with Computers 3 semester hours ___
The remaining hours in Area V must be completed in Fire Sciences, Fire Services Management (FCS), Criminal Justice (CJ), Emergency Medical Services (EMS), or Water Quality Management. 20 semester hours ___ ___ ___ ___ ___ ___ ___
TOTAL MAJOR PREREQUISITE HOURS: 19-23 semester hours
TOTAL GEN. ED. REQUIREMENTS AND MAJOR PREREQUISITE HOURS: 60-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**
PO 303 Comparative State and Local Government 3 semester hours ___
PO 304 Problems of American Government 3 semester hours ___
PO 342 Methods of Behavioral Science Research 3 semester hours ___
MG/PSA 349 Human Resources Management **OR**
PSA 380 Public Finance 3 semester hours ___
PSA 350 Introduction to the American Legal System 3 semester hours ___
PSA 375 Organizational Behavior 3 semester hours ___
PSA 377 Public Administration 3 semester hours ___
PSA 445 Contemporary Issues Seminar in Public Safety 3 semester hours ___
PSA 455 Public Administration Ethics 3 semester hours ___
PSA 465 Senior Research Project 4 semester hours ___
PSA/JS/PO/MG Electives (approved by Faculty Advisor) 6 semester hours ___ ___
TOTAL PROFESSIONAL HOURS: 37 semester hours

5. A minimum of 27 semester hours of upper division JS/PO/PSA coursework must be completed at Athens State University.

6. A minor is not required.

7. **GENERAL ELECTIVES 27 Semester Hours** ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

8. **TOTAL HOURS FOR GRADUATION: 124-128 semester hours**

PUBLIC SAFETY ADMINISTRATION EXTRA-INSTITUTIONAL CREDIT

Students majoring in Public Safety Administration may be eligible to obtain up to a maximum of 12 semester hours upper-division academic credit for experience and advanced professional certifications. Academic credit may be awarded for official professional certification in a public safety field and/or work experience in a public safety supervisory and/or administrative position. Credit for basic certificates or credit previously awarded at another level or through another institution will not be duplicated.

Students meeting the qualifications for extra-institutional credit must register for particular courses in which the students' credentials are assessed and appropriate credits awarded. Each course is 3 semester hours credit, and carries the standard per hour tuition. Students assume the responsibility for registering for the appropriate course(s) credits, and for submitting to their Public Safety Administration Faculty Advisor all appropriate certificate copies and documentation of appropriate work experiences. Students successfully documenting advanced professional skills and administrative experience will be awarded a score of P (passing) for appropriate coursework. Students may not register for this coursework their first term at Athens State University, but must register for this coursework prior to their last term registration.
The particular courses for which qualified students should register are listed below with appropriate criteria.

PSA 459D Public Safety Supervisor
Must provide a letter of appointment from agency

PSA 460D Public Safety Manager/Administrator
Must provide a letter of appointment from agency

PSA 461D Paramedic
Must provide copy of certificate

PSA 462D Haz-Mat Technician
Must provide copy of certificate

Bachelor of Arts - Religion Major
MAJOR CODE: 38.0201A

Program components for the Bachelor of Arts with a major in Religion include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**

To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. **Written Composition** **6 semester hours** __ __

Area II. **Humanities/Fine Arts (12 semester hours)**

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. **Mathematics and Natural Sciences (11 semester hours)**

Finite math or its equivalent required 3 semester hours __

Natural Sciences (lab based) required 8 semester hours __ __

Area IV. **History/Behavioral and Social Sciences (12 semester hours)**

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Survey of the Old Testament **or**
Survey of the New Testament 3 semester hours ___
CIS 146 Microcomputer Applications **or**
CIS 301 Problem Solving with Computers 3 semester hours ___
General electives 17 semester hours ___ ___ ___ ___ ___ ___

TOTAL MAJOR PREREQUISITE HOURS: 19-23 semester hours
TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 60-64 semester hours

4. **PROFESSIONAL COURSES:**

Comparative Religion **or** History of World Religions **or**
RE 301 Religions That Shaped the World 3 semester hours ___
PH 300 Moral Values in Today's Society **or**
RE 403 Religion in Life 3 semester hours ___

Survey of Church History I **or**
Survey of Church History II **or**
RE 312 History of Judaism **or**
RE 314 History of Islam **or**
HY 310 History of American Religion 3 semester hours ___

RE 409 Christian Thought in Early Centuries **or**
RE 412 The Hebrew Prophets **or**
RE 413 Wisdom and Devotion Literature 3 semester hours ___

RE 327 Sociology of Religion 3 semester hours ___
RE 351 Introduction to Christian Thought 3 semester hours ___
RE 416 Interpreting the Text 3 semester hours ___
Electives from the Area of Religion or Philosophy at the 300/400 level 9 semester hours ___ ___

TOTAL PROFESSIONAL HOURS: **30 semester hours**

5. A minor is **not** required, but encouraged.

6. **GENERAL ELECTIVES (Without a minor)** **34 semester hours** ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

GENERAL ELECTIVES (With an 18 semester hour minor) **16 semester hours** ___ ___ ___ ___ ___ ___

7. **TOTAL HOURS FOR GRADUATION** **124-128 semester hours**

8. It is recommended that religion and philosophy students planning to attend graduate school or seminary take at least 6 semester hours of foreign languages. The most common languages used in these disciplines are French, German, Greek, and Hebrew.

9. Philosophy or religion minor, church finance minor, behavioral science minor, religious education minor or philosophy minor required. 18 semester hours

PHILOSOPHY OR RELIGION MINOR

Eighteen semester hours or six courses in Philosophy and/or Religion constitutes a minor. ___ ___ ___ ___ ___ ___

TOTAL HOURS IN MINOR 18 SEMESTER HOURS

Religion courses accepted from non-accredited schools will serve only as general electives, will not apply toward humanities or social science elective requirements, and will not apply toward the minor.

PHILOSOPHY MINOR

Choose one from the following group:

PH 312 Logic
PH 401 Skeptical, Critical, and Logical Thinking 3 semester hours ___

Required:

PH 300 Moral Values in Today's Society 3 semester hours ___
PH 321 History of Philosophy I 3 semester hours ___
PH 322 History of Philosophy II 3 semester hours ___
PH 325 Philosophy of Religion 3 semester hours ___
Electives in the Humanities or Sciences 3 semester hours ___
TOTAL HOURS IN MINOR 18 SEMESTER HOURS

BEHAVIORAL SCIENCE MINOR

Choose one from the following group:
PS 352 Abnormal Behavior
PS 304 Drugs and Behavior
PS 406 Physiological Psychology 3 semester hours ___

Choose one from the following group:
PS 331 Social Psychology
PS 332 Child Psychology
PS 402 Introduction to Clinical Psychology
SO 360 The Contemporary American Family
SO 471 Aging in a Mass Society 3 semester hours ___

Required:
PS 334 Adolescent Psychology 3 semester hours ___
PS 335 Adult Psychology 3 semester hours ___
SO 362 Deviant Social Behavior 3 semester hours ___
SO 312 Majority/Minority Relations 3 semester hours ___
TOTAL HOURS IN MINOR 18 SEMESTER HOURS

CHURCH FINANCE MINOR

Choose one from the following group:

MG 303 Management Decision Support
MG 349 Human Resources Management
MG 353 Project Management
MG 375 Organizational Behavior
MK 331 Principles of Marketing 3 semester hours ___

Required:

AC 300 Principles of Accounting 3 semester hours ___
EC 310 Modern Economics 3 semester hours ___
FIN350 Managerial Finance 3 semester hours ___
GBA311 Legal Environment of Business 3 semester hours ___
MG 346 Principles of Management 3 semester hours ___
TOTAL HOURS IN MINOR 18 SEMESTER HOURS

RELIGIOUS EDUCATION MINOR

RE 305 Survey of Religious Education 3 semester hours ___
*RE 405 Religious Education of Adults 3 semester hours ___
ER 310 Principles of Early Childhood Education 3 semester hours ___
RE 417 Senior Research Project in Religious Education 4 semester hours ___
**Elective in Education 6 semester hours ___ ___
TOTAL HOURS IN MINOR 19 SEMESTER HOURS

*Students who plan to work with children may substitute ER 350 Administering and Managing Early Childhood Programs for RE 405 Religious Education of Adults.

**Electives may not be selected from courses that require Teacher Education Program.

SOCIOLOGY (SO)

The program in Sociology seeks to provide students with a comprehensive background for graduate study in sociology. For students preparing for careers in social service, probation/parole, mental health, and related areas, Sociology provides an important background knowledge base.

Specific competencies emphasized in all sociology degree programs include

- a knowledge base that emphasizes the knowledge, theory, and application of core sociological concepts.
- problem solving skills which have been formed by a sociological frame of reference.
- the ability to collect, analyze, and interpret research data.
- the knowledge and skill required to work in human services agencies.
- the background and the ability to do graduate school work.

A departmental exit exam or successful completion of SO 490 is required of all students completing a major in sociology.

Bachelor of Arts - Sociology Major
MAJOR CODE: 45.1101A

Program components for the Bachelor of Arts degree with a major in Sociology include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**

To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	__ __
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	At least one fine arts course	3 semester hours	__
	At least one literature course	3 semester hours	__
	Other Humanities/Fine Arts courses	6 semester hours	__ __
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent required	3 semester hours	__
	Natural Sciences (lab based) required	8 semester hours	__ __
Area IV	**History/Behavioral and Social Sciences (12 semester hours)**		
	At least one history course	3 semester hours	__
	Other History/Behavioral or Social Science courses	9 semester hours	__ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

CIS 146 Microcomputer Applications or	
CIS 301 Problem Solving with Computers	3 semester hours ___
Marriage and the Family	3 semester hours ___
Electives in Sociology	6 semester hours ___ ___
General electives	11 semester hours ___ ___ ___ ___
TOTAL PRE-PROFESSIONAL HOURS:	**23 SEMESTER HOURS**
TOTAL GEN. ED. REQUIREMENTS & PRE-PROFESSIONAL HOURS:	**64 SEMESTER HOURS**

4. **PROFESSIONAL COURSES:**

The following courses must be completed at the 300/400 level.

SO 312 Majority/Minority Group Relations	3 semester hours___
SO 314 Population Study	3 semester hours___
SO 341 Statistics with Advanced Topics in Behavioral Science	3 semester hours___
SO 342 Methods of Behavioral Science Research	3 semester hours___
SO 360 The Contemporary American Family	3 semester hours___
SO 361 Social Analysis	3 semester hours___
SO 362 Deviant Social Behavior	3 semester hours___
SO 460 Sociological Theories	3 semester hours___
SO 490 Senior Sociology Seminar	1 semester hours___
Electives in Sociology	9 semester hours___ ___ ___
TOTAL PROFESSIONAL HOURS:	**34 SEMESTER HOURS**

5. A minor is required 18 semester hours

6. **GENERAL ELECTIVES** **12 semester hours**___ ___ ___ ___

7. **TOTAL HOURS FOR GRADUATION:** **128 SEMESTER HOURS**

Bachelor of Science - Sociology Major
MAJOR CODE: 45.1101B

Program components for the Bachelor of Science degree with a major in Sociology include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the gen. ed. requirements for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I. **Written Composition** **6 semester hours** __ __

Area II. **Humanities/Fine Arts (12 semester hours)**

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Area III. **Mathematics and Natural Sciences (11 semester hours)**

Finite math or its equivalent required 3 semester hours __

Natural Sciences (lab based) required 8 semester hours __ __

Area IV. **History/Behavioral and Social Sciences (12 semester hours)**

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 9 semester hours __ __ __

TOTAL GEN. ED. REQUIREMENTS 41 semester hours

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

The Sociology major must complete

Marriage and the Family	3 semester hours	___
CIS 146 Microcomputer Applications or		
CIS 301 Problem Solving with Computers	3 semester hours	___
Electives in Sociology	6 semester hours	___ ___
General electives	11 semester hours	___ ___ ___ ___

TOTAL MAJOR PREREQUISITE HOURS: 23 SEMESTER HOURS

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 64 SEMESTER HOURS

3. **PROFESSIONAL COURSES:**

The following courses must be completed at the 300/400 level.

SO 312 Majority/Minority Group Relations	3 semester hours	___
SO 314 Population Study	3 semester hours	___
SO 341 Statistics with Advanced Topics in Behavioral Science	3 semester hours	___
SO 342 Methods of Behavioral Science Research	3 semester hours	___
SO 360 The Contemporary American Family	3 semester hours	___
SO 361 Social Analysis	3 semester hours	___
SO 362 Deviant Social Behavior	3 semester hours	___
SO 460 Sociological Theories	3 semester hours	___
SO 490 Senior Sociology Seminar	1 semester hour	___
Electives in Sociology	9 semester hours	___ ___ ___
TOTAL PROFESSIONAL HOURS:	**34 SEMESTER HOURS**	

4. A minor is **not** required.

5. **GENERAL ELECTIVES 30 semester hours** ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

6. **TOTAL HOURS FOR GRADUATION: 128 SEMESTER HOURS**

SOCIOLOGY MINOR

A minor in Sociology requires the completion of eighteen semester hours of coursework to consist of the following:

SO 312 Majority/Minority Group Relations	3 semester hours
SO 362 Deviant Social Behavior	3 semester hours
SO 460 Sociological Theories	3 semester hours
Sociology Electives	9 semester hours
TOTAL HOURS IN MINOR	18 SEMESTER HOURS

Robert D. Gulbro, D.B.A.

Dean
Founders Hall

Athens State University, through its School of Business, is nationally accredited by the Association of Collegiate Business Schools and Programs to offer the following business degree:

The Bachelor of Business Administration (B.B.A.) with majors in:

- **Accounting**
- **Human Resource Management**
- **Management**
- **Management of Technology**

MAJORS and MINORS	B.B.A.	Minor	NOTES
MAJORS:			
Accounting	*		
Management	*		
Management of Technology	*		
Human Resource Management	*		
MINORS:			
Business Administration		*	Open to non-business majors only
General Business		*	Open to Management majors only
Human Resource Management		*	Open to all majors
International Business		*	Open to all majors
Marketing		*	Open to all majors
Procurement		*	Open to all majors
Small Business/Entrepreneurship		*	Open to all majors

The School of Business coordinates the

Bachelor of Science Applied Technology (B.S.)
a multidisciplinary program developed to articulate with the Associate of Applied Science and Associate of Applied Technology degrees offered at various community and technical colleges. The Bachelor of Science degree with a major in Applied Technology is offered in three technical concentrations:
Manufacturing
Information Systems
Electronics/Instrumentation

MAJOR	B.S.	NOTES
Applied Technology Manufacturing Option Information Systems Option Electronics/Instrumentation Option	*	Open to students who have completed an A.A.S. or A.A.T. degree, or to students with five years work experience or certification of industrial technical competency (subject to assessment).

SCHOOL OF BUSINESS

The mission of the School of Business is to offer programs of study to students that will prepare them for positions in business, finance, or government; enhance the professional development of those already employed, and provide an academic framework for graduate study leading to professional positions. The purpose of the School of Business is to provide quality education for all students, teaching them to think independently, to communicate, to make decisions, to solve problems, and to be lifelong learners. To carry out its mission and support its purpose, the School of Business has established the following seven goals:

1. Provide for continuous improvement of the programs within the School of Business in keeping with the standards set by Athens State University.
2. Place excellence in teaching as the number one priority for serving students and for evaluating faculty.
3. Offer academic advising services to students to ensure that they complete their degree programs in a timely manner.
4. Support faculty development by providing funding for attending seminars and workshops and for presentation of research.
5. Encourage growth and diversity in the faculty and student body.
6. Seek community and business relationships for advice and support of student and curriculum needs.
7. Maintain cooperative working relationships with other educational institutions to facilitate student transfer, maximize resource utilization and provide quality programs.

Athens State University, through its School of Business, is nationally accredited by the Association of Collegiate Business Schools and Programs (ACBSP) to offer the Bachelor of Business Administration (B.B.A.) degree with majors in accounting, human resource management, management, and management of technology. Instruction offered by the School of Business is designed to assist in the preparation of competent and effective professionals in the areas of accounting and management. Students completing a degree program offered by the School of Business will possess the following skills and competencies:

1. Knowledge of accounting and economic concepts.
2. Knowledge of management and marketing concepts.
3. An ability to effectively use problem-solving techniques.
4. An ability to effectively and correctly use communication techniques.
5. An ability to effectively and correctly use quantitative techniques.
6. An understanding of the legal and ethical environment of business.
7. An understanding of microcomputer usage as it relates to business.
8. An understanding of the sources and uses of funds for business operation and the calculation of the cost of capital.
9. An understanding of production theory and practice.
10. An understanding of the operation of the global economy.

In cooperation with the School of Arts and Sciences, the School of Business participates in an interdisciplinary program of study leading to the Bachelor of Science degree in public safety administration (see Public Safety Administration).

It is the student's responsibility to comply with the School of Business coursework requirements. Under no circumstances are alterations or substitutions in required coursework permitted without prior approval of the business faculty members in the major area, the student's faculty advisor and the Dean of the School of Business.

SCHOOL OF BUSINESS

Questions? Please contact us by telephone or e-mail!

Dr. Robert Gulbro, Dean	233-8116	gulbror@athens.edu
Trisha Chavanne, Administrative Assistant	233-8117	chavapr@athens.edu
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Donna Thomas, Secretary	233-8211	thomadf@athens.edu

ACCOUNTING

The objective of the major in accounting is to prepare students for a wide variety of careers in professional accounting, including public accounting, industrial accounting, internal auditing, and government service and to provide an academic framework for future graduate study. In addition to the program components listed below, the student should complete the general university requirements and satisfy the conditions for graduation (See General University Requirements).

Students who plan to sit for the CPA Exam in Alabama must complete a total of at least 150 semester hours. This may be accomplished by completing additional courses or completing a master's degree that provides the coursework required by the Alabama C.P.A. Board.

Bachelor of Business Administration - Accounting
MAJOR CODE: 52-0301A

Program components for the Bachelor of Business Administration degree with a major in Accounting include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the general studies curriculum core for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Written Composition 6 semester hours __ __

Humanities/Fine Arts (12 semester hours)

At least one fine arts course 3 semester hours __

At least one literature course 3 semester hours __

Other Humanities/Fine Arts courses 6 semester hours __ __

Mathematics and Natural Sciences (11 semester hours)

Finite math or its equivalent required 3 semester hours __

Natural Sciences (lab based) required 8 semester hours __ __

History/Behavioral and Social Sciences (12 semester hours)

Economics - Micro (ECO 321) and Macro (ECO 323) 6 semester hours __ __

At least one history course 3 semester hours __

Other History/Behavioral or Social Science courses 3 semester hours __

TOTAL GEN. ED. REQUIREMENTS **41 semester hours**

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Principles of Accounting (BUS 241 and BUS 242 or BUS 210 and BUS 248)	6 semester hours	___ ___.
Business Statistics I (BUS 271)	3 semester hours	___
Business Statistics II (BUS 272)	3 semester hours	___
Legal Environment of Business (BU 263)	3 semester hours	___
Windows Computer Applications (CIS 146)	3 semester hours	___
Management Decision Support Systems	3 semester hours	___
TOTAL MAJOR PREREQUISITE HOURS:	**19-23 SEMESTER HOURS**	

TOTAL GEN. ED REQUIREMENTS & MAJOR PREREQUISITE HOURS: 62-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

AC 321 Intermediate Accounting I	3 semester hours	___
AC 322 Intermediate Accounting II	3 semester hours	___
AC 323 Intermediate Accounting III	3 semester hours	___
AC 341 Governmental Accounting	3 semester hours	___
AC 361 Federal Tax Accounting I	3 semester hours	___
AC 371 Managerial Accounting	3 semester hours	___
AC 401 Auditing	3 semester hours	___
AC 425 Accounting Information Systems	3 semester hours	___
AC 431 Advanced Accounting	3 semester hours	___
AC 442 Advanced Auditing and Fraud Examination	3 semester hours	___
AC 461 Federal Tax Accounting II	3 semester hours	___
AC 471 Advanced Cost Accounting	3 semester hours	___
EC 321 Money and Banking	3 semester hours	___
FIN 350 Managerial Finance	3 semester hours	___
GBA312 Law for Accountants	3 semester hours	___
MG 320 Organizational Communication and Leadership	3 semester hours	___
MG 346 Principles of Management	3 semester hours	___
MG 352 International Business **OR** EC320 International Commerce	3 semester hours	___
MG 390 Production and Operations Management	3 semester hours	___
MG 420 Business Policy	3 semester hours	___
MK 331 Marketing Principles	3 semester hours	___
TOTAL PROFESSIONAL HOURS:	**63 SEMESTER HOURS**	

5. Earning an acceptable score on an assessment exam containing questions dealing with the ten competency and skill areas around which the curriculum is based.

6. Completion of a capstone course, MG 420 Business Policy, with a minimum grade of "C". (Should be taken during final term.)

TOTAL MINIMUM HOURS FOR GRADUATION: 128 SEMESTER HOURS*

MANAGEMENT

The objective of the major in management is to provide students with a comprehensive business education which will prepare them to enter managerial employment or to assist in the development of individuals who hold those positions. In addition, it provides an academic framework for future graduate study. The major encompasses the traditional business curriculum which includes coursework in accounting, economics, finance, management, marketing and the legal environment of business. Program components for the Bachelor of Business Administration in Management are listed below. In addition the student must satisfy the general university requirements (See General University Requirements).

Bachelor of Business Administration - Management

MAJOR CODE: 52-0201A

Program components for the Bachelor of Business Administration degree with a major in Management include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

 - complete a minimum of 33 semester hours of the last 39 semester hours at ASU.
 - complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
 - complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
 - complete all course requirements for major(s).
 - complete all course requirements for minor (if applicable).
 - complete all of the general studies curriculum core for the degree.
 - attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
 - complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
 - complete the teacher certification requirements (if applicable).

 EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Written Composition	**6 semester hours**	__ __
Humanities/Fine Arts (12 semester hours)		
At least one fine arts course	3 semester hours	__
At least one literature course	3 semester hours	__
Other Humanities/Fine Arts courses	6 semester hours	__ __
Mathematics and Natural Sciences (11 semester hours)		
Finite math or its equivalent required	3 semester hours	__
Natural Sciences (lab based) required	8 semester hours	__ __
History/Behavioral and Social Sciences (12 semester hours)		
Economics - Micro (ECO 321) and Macro (ECO 323)	6 semester hours	__ __
At least one history course	3 semester hours	__
Other History/Behavioral or Social Science courses	3 semester hours	__
TOTAL GEN. ED. REQUIREMENTS	**41 semester hours**	

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Principles of Accounting (BUS 241 and BUS 242 or BUS 210 and BUS 248)	6 semester hours	___ ___
Business Statistics I (BUS 271)	3 semester hours	___
Business Statistics II (BUS 272)	3 semester hours	___
Legal Environment of Business (BU 263)	3 semester hours	___
Windows Computer Applications (CIS 146)	3 semester hours	___
Elective	3 semester hours	___
TOTAL MAJOR PREREQUISITE HOURS:	**19-23 SEMESTER HOURS**	

TOTAL GEN. ED. & MAJOR PREREQUISITE HOURS: 62-64 SEMESTER HOURS

4. **PROFESSIONAL COURSES:**

a. Management Core:

EC 321 Money and Banking	3 semester hours	___
FIN 350 Managerial Finance	3 semester hours	___
MG 302 Management Information Systems	3 semester hours	___
MG 320 Organizational Communication and Leadership	3 semester hours	___
MG 346 Principles of Management	3 semester hours	___
MG 352 International Business	3 semester hours	___
MG 390 Production and Operations Management	3 semester hours	___
MG 420 Business Policy	3 semester hours	___
MK 331 Marketing Principles	3 semester hours	___
TOTAL PROFESSIONAL HOURS:	**27 SEMESTER HOURS**	

b. Minor Requirements 18-21 semester hours
Student must complete a minor in one of the following areas:

General Business Minor
(Open to Management Majors Only)

AC 371 Managerial Accounting	3 semester hours
MG 303 Mgmt. Decision Suppt. Systems	3 semester hours
MG 349 Human Resource Management	3 semester hours
MG 353 Project Management	3 semester hours
MG 375 Organizational Beh. & Team Bldg.	3 semester hours
MG 417 Management of Change	3 semester hours
TOTAL MINOR HOURS	**18 SEMESTER HOURS**

International Business

**MG 352 International Business*	*3 semester hours*
EC/PO 320 Intro. to Intern'l Comm.	3 semester hours
EC 410 Intern'l Fin. & Monetary Econ.	3 semester hours
PO 453 International Relations	3 semester hours
GBA350 Intern'l Legal & Cultural Env of Bus.	3 semester hours
MG 412 Case Study: Int'l Bus. Dipl.	3 semester hours
TOTAL MINOR HOURS	**18 SEMESTER HOURS**

Procurement Minor

PR 394 Introduction to Procurement	3 semester hours
PR 395 Price and Cost Analysis	3 semester hours
PR 396 Adv. Procurement Con.	3 semester hours
PR 397 Contract Negotiations	3 semester hours
PR 398 Contract Administration	3 semester hours
MG 353 Project Management	3 semester hours
MG 375 Organizational Beh. & Team Bldg.	3 semester hours
TOTAL MINOR HOURS	**21 SEMESTER HOURS**

Marketing Minor

**MK 331 Marketing Principles*	*3 semester hours*
MK 336 Consumer Beh. (or MG 375)	3 semester hours
MK 432 Retailing	3 semester hours
MK 333 Advertising & Promotional Strat.	3 semester hours
MK 431 Marketing Research	3 semester hours
MK 433 Marketing Strat. & Policies	3 semester hours
PR 395 Price and Cost Analysis	3 semester hours
TOTAL MINOR HOURS	**21 SEMESTER HOURS**

Human Resource Management

**MG 346 Principles of Management*	*3 semester hours*
MG 349 Human Resource Management	3 semester hours
MG 351 Labor-Management Relations	3 semester hours
MG 410 Employment Law	3 semester hours
MG 449 Adv. Human Resource Mgmt.	3 semester hours
EC 348 Labor Economics	3 semester hours
GBA368 Industrial & Pers. Psychology	3 semester hours
TOTAL MINOR HOURS	**21 SEMESTER HOURS**

Small Business/Entrepreneurship Minor

AC 361 Federal Tax Accounting I	3 semester hours
AC 371 Managerial Accounting	3 semester hours
**MG 346 Principles of Management*	*3 semester hours*
MG 349 Human Resource Management	3 semester hours
MG 375 Organizational Beh. & Team Bldg.	3 semester hours
MG 416 Entrepreneurship	3 semester hours
MK 432 Retailing	3 semester hours
TOTAL MINOR HOURS	**21 SEMESTER HOURS**

**Core course*

c. **BUSINESS ELECTIVE HOURS 16-19 SEMESTER HOURS****

Approved electives, to be chosen in consultation with the student's advisor, are to be selected from the following list.

AC 300 Accounting Principles	GBA368 Ind. & Pers. Psych.	MG 375 Org. Beh. & Teambuilding
AC 361 Federal Tax Accounting 1	MG 303 Mgmt. Dec. Support Sys.	MG 410 Employment Law
AC 371 Managerial Accounting	MG 349 Human Resource Mgmt.	MG 416 Entrepreneurship
EC 348 Labor Economics	MG 351 Labor Management Rel.	MG 417 Management of Change
GBA307 Quant. Bus. Analysis	MG 353 Project Management	MG 418 Management of Technology

5. **Assessment Exam.** Student must earn an acceptable score on an assessment exam containing questions dealing with the ten compentency areas around which the curriculum is based.

6. Completion of a capstone course, MG 420 Business Policy, with a minimum grade of "C". (Should be taken during final term.)

TOTAL MINIMUM HOURS FOR GRADUATION: 124 SEMESTER HOURS

****Depending on minor selected.**

HUMAN RESOURCE MANAGEMENT

The objective of the major in Human Resource Management is to provide students with a program of study that will prepare them for a variety of employment opportunities in the area of human resource management and provide an academic framework for future graduate study. The curriculum combines traditional business courses, specialized management courses, and related psychology courses.

Bachelor of Business Administration - Human Resource Management

MAJOR CODE: 52-1001A

Program components for the Bachelor of Business Administration degree with a major in Human Resource Management include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

 - complete a minimum of 33 semester hours of the last 39 semester hours at ASU .
 - complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
 - complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
 - complete all course requirements for major(s).
 - complete all course requirements for minor (if applicable).
 - complete all of the general studies curriculum core for the degree.
 - attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
 - complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
 - complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	___ ___
Area II.	**Humanities/Fine Arts**	**12 semester hours**	___ ___.___ ___
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent required	3 semester hours	___
	Natural Sciences (lab based)	8 semester hours	___ ___
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	Micro Economics (ECO 231)	3 semester hours	___
	Macro Economics (ECO 232)	3 semester hours	___
	Other History/Behavioral or Social Science Courses	6 semester hours	___ ___
	Students are encouraged to take at least one history course and one behavioral science course.		
TOTAL GEN. ED. REQUIREMENTS		**41 semester hours**	

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Principles of Accounting (BUS 241 and BUS 242) or BUS 210 and BUS 248)	6 semester hours	___
Business Statistics I (BUS 271)	3 semester hours	___
Business Statistics II (BUS 272)	3 semester hours	___
Legal Environment of Business (BU 263)	3 semester hours	___
Windows Computer Applications (CIS 146)	3 semester hours	___
Elective	3 semester hours	___

TOTAL MAJOR PREREQUISITE HOURS: 19-23 SEMESTER HOURS

TOTAL GEN. ED. REQUIREMENTS & MAJOR PREREQUISITE HOURS: 62-64 SEMESTER HOURS

3. **PROFESSIONAL COURSES:**

EC 321	Money and Banking	3 semester hours	___
EC 348	Labor Economics	3 semester hours	___
FIN 350	Managerial Finance	3 semester hours	___
GBA368	Industrial and Personnel Psychology	3 semester hours	___
MG 302	Management Information Systems	3 semester hours	___
MG 320	Organizational Communication and Leadership	3 semester hours	___
MG 346	Principles of Management	3 semester hours	___
MG 349	Human Resource Management	3 semester hours	___
MG 351	Labor Management Relations	3 semester hours	___
MG 352	International Business **OR** EC 320 International Commerce	3 semester hours	___
MG 375	Organizational Behavior and Team Building	3 semester hours	___
MG 390	Production and Operations Management	3 semester hours	___
MG 410	Employment Law for Business	3 semester hours	___
MG 417	Management of Change	3 semester hours	___
MG 420	Business Policy	3 semester hours	___
MK 331	Marketing Principles	3 semester hours	___

Select 3 courses from the following: 9 semester hours ___ ___ ___

PS 304 Drugs and Behavior (3 semester hours)
PS 331 Social Psychology (3 semester hours)
PS 335 Adult Psychology (3 semester hours)
PS 425 Tests and Measurements (3 semester hours)
MG 449 Advanced Human Resource Management (3 semester hours)

TOTAL PROFESSIONAL HOURS: 57 SEMESTER HOURS

FREE UPPER LEVEL ELECTIVE HOURS 7 semester hours ___ ___ ___ ___

4. Earning an acceptable score on an assessment exam containing questions dealing with the ten competency and skill areas around which the curriculum is based.

5. Completion of a capstone course, MG 420 Business Policy, with a minimum grade of "C". (Should be taken during final term.)

TOTAL MINIMUM HOURS FOR GRADUATION: 124 SEMESTER HOURS

MANAGEMENT OF TECHNOLOGY

The objective of the major in Management of Technology is to provide students with a comprehensive business education which will prepare them to enter managerial employment or to assist in the development of individuals who hold those positions. In addition, it provides an academic framework for future graduate study. The major encompasses the traditional business curriculum which includes coursework in accounting, economics, finance, management, marketing and the legal environment of business. Program components for the Bachelor of Business Administration in Management are listed below. In addition, the student must satisfy the general university requirements (See General University Requirements).

Bachelor of Business Administration - Management of Technology

MAJOR CODE: 52-9999A

Program components for the Bachelor of Business Administration degree with a major in Management of Technology include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
 To graduate, each student must:

 - complete a minimum of 33 semester hours of the last 39 semester hours at ASU .
 - complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
 - complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
 - complete all course requirements for major(s).
 - complete all course requirements for minor (if applicable).
 - complete all of the general studies curriculum core for the degree.
 - attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
 - complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
 - complete the teacher certification requirements (if applicable).

 EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	___ ___
Area II.	**Humanities/Fine Arts**	**12 semester hours**	___ ___.___ ___
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent required	3 semester hours	___
	Natural Sciences (lab based)	8 semester hours	___ ___
Area IV.	**History/Behavioral and Social Sciences (12 semester hours)**		
	Micro Economics (ECO 231)	3 semester hours	___
	Macro Economics (ECO 232)	3 semester hours	___
	Other History/Behavioral or Social Science Courses	6 semester hours	___ ___
	Students are encouraged to take at least one history course and one behavioral science course.		
TOTAL GEN. ED. REQUIREMENTS		**41 semester hours**	

3. **MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)**

Principles of Accounting (BUS 241 and BUS 242) or BUS 210 and BUS 248)	6 semester hours	___ ___
Business Statistics I (BUS 271)	3 semester hours	___
Business Statistics II (BUS 272)	3 semester hours	___
Legal Environment of Business (BU 263)	3 semester hours	___
Windows Computer Applications (CIS 146)	3 semester hours	___
Elective	3 semester hours	___
TOTAL PRE-PROFESSIONAL HOURS:	**19-23 SEMESTER HOURS**	

TOTAL GEN. ED. REQUIREMENTS & PRE-PROFESSIONAL HOURS: 62-64 SEMESTER HOURS

4. **TECHNICAL CORE (Institutional Credit) BLOCK CREDIT**

Application for Technical Core Credit MUST be filed during student's first term of enrollment at ASU.

Technical Training (4 or more semesters technical school/college **OR**
Work Experience (6 years documented, successful work experience, **OR**
Professional Program (fine arts or health sciences) **24 semester hours** ___

5. **PROFESSIONAL COURSES:**

EC 321 Money and Banking	3 semester hours	___
FIN 350 Managerial Finance	3 semester hours	___
MG302 Management Information Systems	3 semester hours	___
MG303 Management Decision Support Systems	3 semester hours	___
MG 320 Organizational Communication and Leadership	3 semester hours	___
MG346 Principles of Management	3 semester hours	___
MG 352 International Business **OR**		
EC 320 International Commerce	3 semester hours	___
MG390 Production and Operations Management	3 semester hours	___
MG415 Technical Risk Management	3 semester hours	___
MG417 Management of Change	3 semester hours	___
MG418 Management of Technology	3 semester hours	___
MG419 Technology Transfer and Communications	3 semester hours	___
MG420 Business Policy	3 semester hours	___
MK331 Marketing Principles	3 semester hours	___
TOTAL PROFESSIONAL HOURS:	**42 SEMESTER HOURS**	

5. Earning an acceptable score on an assessment exam containing questions dealing with the ten competency and skill areas around which the curriculum is based.

6. Completion of a capstone course, MG 420 Business Policy, with a minimum grade of "C". (Should be taken during final term.)

TOTAL MINIMUM HOURS FOR GRADUATION 124-128 SEMESTER HOURS

SCHOOL OF BUSINESS MINORS

Business Administration Minor

(This minor is open to non-business majors only.)

AC	300	Foundations of Accounting	3 semester hours	___
EC	310	Modern Economics or Principles of Economics 1	3 semester hours	___
FIN	350	Managerial Finance	3 semester hours	___
GBA	305	Statistical Methods of Business 1	3 semester hours	___
GBA	311	The Legal Environment of Business	3 semester hours	___
MK	331	Marketing Principles	3 semester hours	___
MG	320	Managerial Communications	3 semester hours	___
MG	346	Principles of Management	3 semester hours	___
TOTAL HOURS REQUIRED			**24 SEMESTER HOURS**	

General Business Minor

(This minor is open to Management majors Only. See Management Major for requirements.)

Human Resource Management Minor

(This minor is open to students in all majors.)

MG	346	Principles of Management	3 semester hours	___
MG	349	Human Resource Management	3 semester hours	___
MG	351	Labor-Management Relations	3 semester hours	___
MG	410	Employment Law	3 semester hours	___
MG	449	Advanced Human Resource Management	3 semester hours	___
EC	348	Labor Economics	3 semester hours	___
GBA	368	Industrial and Personnel Psychology	3 semester hours	___
TOTAL HOURS REQUIRED			**21 SEMESTER HOURS**	

International Business Minor

(This minor is open to students in all majors.)

MG	352	International Business	3 semester hours	___
EC/PO	320	Introduction to International Commerce	3 semester hours	___
EC	410	International Finance and Monetary Economics	3 semester hours	___
PO	453	International Relations	3 semester hours	___
GBA	350	International Legal & Cultural Environment of Business	3 semester hours	___
MG	412	Case Study: International Business Diplomacy	3 semester hours	___
TOTAL HOURS REQUIRED			**18 SEMESTER HOURS**	

Marketing Minor

(This minor is open to students in all majors.)

MK	331	Marketing Principles	3 semester hours	___
MK	333	Advertising and Promotional Strategies	3 semester hours	___
MK	336	Consumer Behavior	3 semester hours	___
MK	431	Marketing Research	3 semester hours	___
MK	432	Retailing	3 semester hours	___
MK	433	Marketing Strategies and Policies	3 semester hours	___
PR	395	Price and Cost Analysis	3 semester hours	___
TOTAL HOURS REQUIRED			**21 SEMESTER HOURS**	

Procurement Minor

(This minor is open to students in all majors.)

PR 394	Introduction to Procurement	3 semester hours	___
PR 395	Price and Cost Analysis	3 semester hours	___
PR 396	Advanced Procurement Concepts and Government Contract Law	3 semester hours	___
PR 397	Contract Negotiations	3 semester hours	___
PR 398	Contract Administration	3 semester hours	___
MG 353	Project Management	3 semester hours	___
MG 375	Organizational Behavior and Team Building	3 semester hours	___
TOTAL HOURS REQUIRED		**21 SEMESTER HOURS**	

Small Business/Entrepreneurship Minor

(This minor is open to students in all majors.)

AC 361	Federal Tax Accounting I	3 semester hours	___
AC 371	Managerial Accounting	3 semester hours	___
MG 346	Principles of Management	3 semester hours	___
MG 349	Human Resource Management	3 semester hours	___
MG 375	Organizational Behavior and Team Building	3 semester hours	___
MG 416	Entrepreneurship	3 semester hours	___
MG 432	Retailing	3 semester hours	___
TOTAL HOURS REQUIRED		**21 SEMESTER HOURS**	

Procurement Certificate

Athens State University offers a specialized certificate in procurement and acquisition management. Students who seek this certificate should complete the requirements described below.

PR 394	Introduction to Procurement	3 semester hours	___
PR 395	Price and Cost Analysis	3 semester hours	___
PR 396	Advanced Procurement Concepts and Government Contract Law	3 semester hours	___
PR 397	Contract Negotiations	3 semester hours	___
PR 398	Contract Administration	3 semester hours	___
TOTAL HOURS REQUIRED		**15 SEMESTER HOURS**	

LOGISTICS UNIVERSITY

The School of Business participates in consortium agreements with Alabama A&M University and the University of Alabama in Huntsville to offer coursework to employees of the Missile Logistics Center at Redstone Arsenal.

APPLIED TECHNOLOGY

The objective of the major In Applied Technology is to articulate with the Associate of Applied Science (AAS) and the Associate of Applied Technology (AAT) degrees offered at various community and technical colleges. The junior year of study builds on the student's previous technical/community college background and technical work experience; the senior year of study emphasizes advanced specialty technology courses and industry-based, hands-on technology-specific projects.

Bachelor of Science Applied Technology

MAJOR CODE: 15.0499

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS**
To graduate, each student must:

- complete a minimum of 33 semester hours of the last 39 semester hours at ASU .
- complete 60 to 64 semester hours of upper level college/university credit (300-400 level courses).
- complete a minimum of 15 semester hours of upper (300/400) level coursework in his or her major at Athens State University, not including courses taken by consortium arrangement. School or departmental regulations may require more than 15 semester hours of coursework in the major at Athens State University.
- complete all course requirements for major(s).
- complete all course requirements for minor (if applicable).
- complete all of the general studies curriculum core for the degree.
- attain an overall grade point average of 2.0, a 2.0 on all coursework attempted at Athens State University and at least a 2.0 in the major field. School or departmental regulations may require more than a 2.0 grade point average (see major requirements in each discipline).
- complete the total degree requirements at a minimum of 124 to a maximum of 128 semester hours.
- complete the teacher certification requirements (if applicable).

EACH STUDENT MUST ASSUME RESPONSIBILITY FOR KNOWING THE ACADEMIC REQUIREMENTS FOR THE DEGREE THAT IS BEING PURSUED.

2. **GEN. ED. REQUIREMENTS:**

Area I.	**Written Composition**	**6 semester hours**	___ ___
Area II.	**Humanities/Fine Arts (12 semester hours)**		
	Speech	3 semester hours	___
	Other Humanities/Fine Arts	9 semester hours	___ ___.___
Area III.	**Mathematics and Natural Sciences (11 semester hours)**		
	Finite math or its equivalent required	3 semester hours	___
	Natural Sciences (lab based)	8 semester hours	___ ___
Area IV.	**History/Behavioral and Social Sciences**	**12 semester hours**	___ ___.___ ___
	TOTAL GEN. ED. REQUIREMENTS	**41 semester hours**	

3. **PREPROFESSIONAL COURSEWORK**

Some technical coursework will transfer as a pre-professional 'block' credit, while other coursework will meet general education requirements. Each student's college transcript and professional work experience will be evaluated to ensure maximum transfer credit. Any General Education deficiencies can be remedied while pursuing the BSAT (upper-level) program curriculum. Senior Practicum work projects will allow the student to apply their technical specialty and current/ previous work experience.

TOTAL PRE-PROFESSIONAL HOURS 23 SEMESTER HOURS

TOTAL GEN. ED. REQUIREMENTS & PRE-PROFESSIONAL HOURS 64 SEMESTER HOURS

4. **PROFESSIONAL CORE COURSES**

ATC 301 Problem Solving with Computers	3 semester hours	___
ATC/MG320 Organizational Communications and Leadership	3 semester hours	___
ATC 375 Organizational Behavior and Teambuilding	3 semester hours	___
ATC 305 Industrial Processes	4 semester hours	___
ATC 306* Applied Mathematics	3 semester hours	___
ATC/PS/PH 401 Elemens orf Logic and Critical Thinking	3 semester hours	___
TOTAL PROFESSIONAL CORE COURSES	**19 SEMESTER HOURS**	

*All students who enter this program will be given a math pretest to determine placement for mathematics. Students who successfully pass the placement examination will not be required to enroll in ATC 306. If scores on the placement examination document in the mathematics skills necessary to successfully complete this program, the students will enroll in ATC 306.

5. **SELECT ONE OF THE FOLLOWING TECHNICAL OPTIONS:**

Manufacturing Option Courses (For manufacturing students)

ATM 401 Process, Product, and Facilities Design	4 semester hours	___
ATM 402 Manufacturing Issues (JIT, TQM, CI)	3 semester hours	___
ATM 404 Quality Control and SPC	3 semester hours	___
ATM 406 Mathematics for Manufacturing	3 semester hours	___
ATM 408 ISO Certifications Issues	3 semester hours	___

Electives (Choose from the following) 23 semester hours ___ ___.___ ___ ___ ___.___

ATE/ATM/IT 425 Introduction to Robotics (4 semester hours)
ATM/CE 435 Occupational Health and Safety (3 semester hours)
ATM 403 Industrial Economy (3 semester hours)
ATM 409*Fundamentals of Operations (3 semester hours)
ATM 410* Basics of Supply Chain (3 semester hours)
ATM 412* Master Planning of Resources (3 semester hours)
ATM 414* Detailed Scheduling and Planning (3 semester hours)
ATM 416* Execution and Control of Operations (3 semester hours)
ATM 418* Strategic Resource Planning (3 semester hours)

**Courses supporting APICS CPIM Certification*

Practicum Experiences:

ATM 430 Senior Project I	3 semester hours	___
ATM 432 Senior Project II	3 semester hours	___
TOTAL MANUFACTURING OPTION COURSE HOURS	**45 SEMESTER HOUR**	

Information Systems Option Courses

ATIS 401 Process, Product, and Facilities Design	4 semester hours	___
ATIS/CIS 325 Decision Support Systems	3 semester hours	___
ATIS/CIS 365 Visual Applications Development	3 semester hours	___
ATIS/CIS 440 Database Systems	3 semester hours	___
ATIS 406 Mathematics for Information Systems	3 semester hours	___
ATIS 408 Information Systems Development	3 semester hours	___
ATIS 410 Managing Information Systems	3 semester hours	___

Electives (Choose from the following) **6-9 semester hours** ___ ___.___

AC 300 Fundamentals of Accounting (3 semester hours)
FIN350 Managerial Finance (3 semester hours)
EC 321 Money and Banking (3 semester hours)
GBA305 Business Statistics I (3 semester hours)
GBA306 Business Statistics II (3 semester hours)
MG 346 Principles of Management (3 semester hours)
MG 418 Management of Technology (3 semester hours)
MK 331 Principles of Marketing (3 semester hours)

Electives (Choose from any CIS/CS or Computer Networking courses .. **8-11 semester hours** ___ ___.___ ___

Practicum Experiences:

ATIS 430 Senior Project I	3 semester hours	___
ATIS 432 Senior Project II	3 semester hours	___

TOTAL INFORMATION SYSTEMS OPTION COURSE HOURS **45 SEMESTER HOURS**

Electronics/Instrumentation Option Courses (For manufacturing students)

ATE/IT 316 Applied Digital Design	4 semester hours	___
ATE/IT 401 Applied Data Communication	4 semester hours	___
ATE 406 Mathematics for Electronics	3 semester hours	___
ATE 408 Physics for Electronics I	4 semester hours	___
ATE 409 Physics for Electronics II	4 semester hours	___

Electives (Choose from the following) **20 semester hours** ___ ___.___ ___
___ ___.

ATE/IT 306 Interfacing Techniques (4 semester hours)
ATE/IT 400 Advanced Analog Instrumentation (4 semester hours)
ATE/IT 420 Electro-optics (4 semester hours)
ATE/IT 440 Process Control Instrumentation (4 semester hours)
ATE/IT 441 Computer Instrumentation (4 semester hours)
ATE/IT 425 Introduction to Robotics (4 semester hours)

Practicum Experiences:

ATE 430 Senior Project I	3 semester hours	___
ATE 432 Senior Project II	3 semester hours	___

TOTAL ELECTRONICS/INSTRUMENTATION OPTION HOURS **45 SEMESTER HOURS**

TOTAL BSAT DEGREE REQUIREMENTS **128 SEMESTER HOURS**

SCHOOL OF EDUCATION

Mary Lou Maples, Ed.D.
Dean

The School of Education at Athens State University is accredited by the National Council for Accreditation of Teacher Education (NCATE), 2010 Massachusetts Avenue, N.W., Suite 500, Washington, D.C. 2036, Phone (202) 466-7496.

ACADEMIC UNIT	MAJOR	B.S.Ed.	B.S.
EARLY CHILDHOOD ED. P-3	Early Childhood Education P-3	*	
ELEMENTARY EDUCATION	Elementary K-6	*	
SECONDARY EDUCATION	Biology	*	
	Chemistry	*	
	Comprehensive Science	*	
	History	*	
	Language Arts	*	
	Mathematics	*	
	Social Science	*	
SPECIAL EDUCATION	Collaborative Teacher K-6 (Special Education)	*	
	Collaborative Teacher 6-12 (Special Education)	*	
CAREER TECHNICAL EDUCATION	Career/Technical Education	*	
	Post-Secondary Ed. (non-Cert.)	*	
	Military Instructor/Staff Development		
	(non-Cert.)	*	
PHYSICAL EDUCATION	Physical Education	*	*
PHYSICAL EDUCATION	Health Education	*	

SCHOOL OF EDUCATION

The Teacher Education Program at Athens State University promotes the professional development of students who seek teaching as a career, students who will become Teachers for America's Future. The program is approved by the Alabama State Department of Education and accredited by the National Council for Accreditation of Teacher Education. Students are advised and assisted in each phase of their preparation program. The School of Education offers an undergraduate degree leading to Class B Certification in Early Childhood Education, Elementary Education, High School Education, Physical Education, Special Education, and Secondary Trade and Industry. A program for endorsement in high school health is also available. A program for endorsement in middle school is also available. In addition, the School of Education offers a wellness Program to physical education majors and a career technical training program in vocational education.

The School of Education reserves the right to deny credit for course work that is not current. An average of "C" or better is required in English composition and a grade of "C" or better is required in introductory or fundamentals of speech. Students who do not meet these criteria must repeat English composition with a grade of "C" or better, and must repeat an introductory speech course with a grade of "C" or better.

The preparation of teachers is built on a liberal arts foundation. Those students preparing for teaching positions in the secondary schools pursue a composite teaching specialization or complete two approved teaching specializations. Students preparing to teach early childhood and elementary education concentrate on subject matter relevant to the major. Those who are preparing to teach physical education pursue a broad program appropriate to both elementary and/or secondary schools. All groups complete their programs with specific and appropriate professional courses.

All programs are designed to assist students in acquiring knowledge and abilities to become teachers who are effective communicators; knowledgeable scholars; positive and supportive professionals; resourceful curriculum planners; skilled facilitators of developmental growth; student-centered, reflective instructors; capable classroom managers; competent evaluators; and lifelong learners. Faculty model varied methods, strategies, and techniques; students demonstrate attainment of knowledge and skills in classes and campus-based and field-based settings. The development of a professional portfolio that reflects evolving professional growth and the ability to integrate general learning, subject matter, professional studies, and pedagogical studies is required of each candidate.

Follow-up studies of graduates are conducted in an effort to assess teaching effectiveness and to secure data vital to future planning and development. Special assistance is offered to the beginning teacher.

Changes to the requirements of the Teacher Education Program may occur at any time due to certification changes made by the State Department of Education. Students are advised to check updated program of study forms for these changes.

TEACHER EDUCATION PROGRAM

Admission

Prior to enrolling in certain professional education courses other than ED 300, Foundations of Education, a student must be admitted to the Teacher Education Program (TEP). All students wishing to enter the Teacher Education Program should meet the following requirements prior to the end of their second semester and must meet them prior to enrolling in those courses.

1. Present documentation of having taken the Alabama Preservice Teacher Test. There are no prerequisites for this test. In the fall of 2002, the Alabama State Department of Education will begin requiring the Alabama Preservice Teacher Test for anyone seeking initial certification after that date. Students will need to consult advisors concerning the specific requirements for the test.
2. Achieve an average of "C" or better in English composition and a grade of "C" or better in introductory or fundamental speech.
3. Complete Education 300, Foundation of Education, or equivalent, with a grade of "C" or better. This course must be taken at Athens State University. No substitutions are allowed. The course must be completed prior to the TEP interview.
4. Achieve a grade point average of at least 2.75 on a 4.0 scale in each of the following: Professional Education, Teaching Field, and overall education. All general education courses must be completed before admission to the Teacher Education Program and transcripts must be available at the TEP interview.
5. Submit documentation of a current, negative chest x-ray or tuberculosis skin test and have documentation available at the TEP interview.
6. Complete and submit the Written Application for Admission to Teacher Education and Essay (usually completed in ED 300) to the School of Education. This application should be submitted to the advisor and an appointment for the TEP interview should be made prior to:

July 20	for admission prior to Fall Semester
October 20	for admission prior to Spring Semester
March 10	for admission prior to Summer Semester

7. Secondary education majors must provide evidence of 5 days (35 hours) of approved field experiences independent of course requirements.
8. Present and receive a passing score on the required portfolio.
9. Receive recommendation from the advisor who reviews the applicant's personal traits, experiences, interests and aptitudes as these relate to the requirements for successful teaching and recommends the student to the School of Education faculty for

approval. This assessment occurs at the TEP interview after the applicant has presented documentation of all of the requirements for admission.

Retention

1. A student may be dropped from the Teacher Education Program for failure to maintain the standards of performance required for admission to the program. The student will be supervised and evaluated in an effort to eliminate his or her deficiencies. Failure to pass with a "C" or better in any education course (ED, SE, PE, CE, EL, ER, SC) after two attempts will result in removal from the program.
2. Maintain a grade point average of at least 2.75 on a 4.0 scale in each of the following: Professional Education, Teaching Field, and Overall Education.
3. A Professional Review Board composed of education faculty members meets periodically to review unsatisfactory performance and progress of students referred by faculty members. Recommendations are determined by consensus.
4. A student must maintain a current validation of a negative chest x-ray or tuberculosis skin test throughout the Teacher Education Program.

Completion

In addition to the specified courses in each approved program, the student must meet the following requirements:

1. Maintain a grade point average of at least a 2.75 on a 4.0 scale in each of the following: Professional Education, Teaching Field, and Overall Education. This is a requirement for student teaching and for graduation.
2. Achieve a minimum grade of "C" in each professional education course (ED, EL, ER, SC, SE, PE, CE) and each teaching field course. Courses in which D's and F's are made must be repeated and all attempts are calculated in GPA. Education courses with the prefixes indicated may be repeated one time only.
3. Complete the Teacher Education Program within five years from the date of admission.
4. Earn a passing score on a comprehensive exit examination covering the content of the teaching field(s) and professional education. All students completing any education program are required to take the examination.
5. Secondary education majors must provide evidence of 10 days (70 hours) of approved field experience independent of course requirements. (This includes the 5 days (35 hours) required for admission to TEP indicated above.)
6. Receive a satisfactory evaluation on the required portfolio. The portfolio will reflect evolving professional growth from the start to the completion of the program. During the final semester, the candidate will present the portfolio for evaluation.

SECONDARY EDUCATION

The student who wishes to be certified to teach in high school (grades 7-12) must successfully complete an approved composite major or two majors. The requirements for completing a teacher education program in high school follows:

Bachelor of Science in Education - Secondary Education Major

Program components for the Bachelor of Science in Education with a major in High School Education include:

1. Applicable general university requirements
2. General studies curriculum core requirements.
3. High School Education majors desiring middle school endorsement (grades 4-8) should refer to their respective high school certification requirements for applicable middle school endorsements.

Field Experience

In order to meet the field experience requirements for Secondary Education, secondary education majors must complete 10 days (70 hours) of approved field experience prior to admission to internship. These 10 days (70 hours) are in addition to field experience requirements for courses in the professional program. Questions regarding appropriate field experience should be directed to the student's advisor.

IMPORTANT NOTICE!!!

The State Department of Education retains the right to deny credit for a course with a prerequisite of admission to teacher education if that course was taken prior to admission to teacher education. Students not admitted to the Teacher Education Program who register for courses that require admission can be withdrawn from the course by the School of Education.

Courses That Require Admission to the Teacher Education Program

Early Childhood Education

ED 420	Teaching Science
ED 423	Teaching Social Studies
ER 350	Administering and Managing Early Childhood Program
ER 460, 461, 462	Practicum in Early Childhood Development
ER 470	Early Childhood Curriculum
ER 480	Internship in Early Childhood

Elementary Education

ED 361	Measurement and Management
ED 420	Teaching Science
ED 423	Teaching Social Studies
EL 413	Teaching Reading in Intermediate Grades
EL 472	Planning and Organizing the Elementary School Curriculum
EL 482	Internship in Elementary Education

Collaborative Teacher

EL 413	Teaching Reading in the Intermediate Grades
SE 425	Conferencing and Collaborative Techniques
SE 465	IEPs and Other Legal Issues
SE 476	Internship in Collaborative Teacher K-6
SE 478	Internship in Collaborative Teacher 6-12

Language Arts, Comprehensive Science, Biology, Chemistry, Social Science, History, Mathematics

ED 361	Measurement and Management
SC 333	Teaching Reading in the Content Area
SC 431	Teaching Middle/High School
SC 486	Internship in High School

Physical Education

HPE 401	Tests and Measurements in Physical Education
HPE 430	Teaching Physical Education in the Elementary School
HPE 440	Teaching Physical Education in the High School
HPE 488	Internship in P-12
SC 333	Teaching Reading in the Content Area

Career/Technical Education

CE 440	Testing and Evaluation in Vocational Education
CE 470	Practicum - Supervised Work Experience
SC 333	Teaching Reading in the Content Area
SC 486	Internship in High School

Health Education

PE420	Teaching Health in the High School

Internship

1. Students **must** apply to the Director of Internship two semesters prior to registering for Internship. (The application forms are available in McCain Hall.) The internship should be taken the last semester in attendance after all course work has been successfully completed.
2. The intern shall not be enrolled in course work during the normal operational hours of the school(s) where the internship is being completed. (Limit: One evening or weekend course with permission.)
3. The intern may not hold any position with the school or school district that entails responsibility to someone other than their cooperating classroom teachers or receive remuneration for such. Students may not request placements for internships where any relatives are employed, children attend, or where they attended.
4. The initial internship requires fourteen weeks (70 days) of attendance at the assigned school(s). A second internship for persons seeking additional certification in all areas except Special Education requires seven weeks (35 days) of attendance at the assigned school(s). A second internship in Special Education requires an additional fourteen weeks (70 days).

The State Board of Education periodically revises the requirements governing certification in the State of Alabama. Therefore, requirements for degrees leading to certification are subject to change from those published in this Catalog. The student is advised to secure a current curriculum guide from the School of Education Office to ensure that both degree requirements and certification requirements are met.

Anyone convicted of a felony can be denied certification or have certification revoked by the State Superintendent.

Certification

Issuance of Alabama teaching certificates is the legal responsibility of the Alabama State Department of Education. Universities and colleges cannot issue a professional certificate. However, in order to be certified at the professional "B" level, a student must complete an appropriate course of study at a college or university which has been approved by the State Board of Education. When a student completes the course of study, the institution recommends to the State Department of Education that the appropriate certificate be awarded. It is the responsibility of the student to complete the steps for certification recommendation from Athens State University which are as follows:

1. Satisfy the requirements of the Teacher Education Program.
2. Obtain application for certification from the Certification Officer.
3. Provide a $20.00 money order for each level of certification. (Amount subject to state modification; make money order payable to the State Department of Education in Montgomery).
4. Provide two fingerprint cards.
5. Provide a release form for an ABI background check and a consent form for an FBI background check.
6. Provide a $49.00 money order made payable to the State Department of Education for the background check.
7. Provide the Certification Officer with one copy of an official transcript.
8. Students seeking certification in another state should check with that state for requirements and certification areas available.

NOTE: Certificates for students who complete certification requirements after September 1 will be dated effective July 1 of the following year.

BACKGROUND CHECK FOR CERTIFICATION APPLICATIONS

Alabama requires all applicants to obtain a state and federal background clearance through a fingerprint review conducted by the Alabama Bureau of Investigation (ABI) and The Federal Bureau of Investigation (FBI) unless they hold or have held an Alabama Professional Certificate or Career/Technical Certificate (day trade or health occupations) which was issued on the basis of an application submitted prior to July 1, 1997. The fingerprint cards will remain on file with the ABI and FBI as long as the certificate or license is valid. If the certificate or license is allowed to lapse, the fingerprint card will remain on file with the ABI and FBI no longer than 90 days from the date of its expiration.

Students may choose to be fingerprinted by Athens State or contact a law enforcement agency in their communities. After fingerprints are taken, the fee for processing the fingerprint cards through the appropriate law enforcement agency is $49.00, made payable by separate money order or cashier's check to the Alabama State Department of Education. This fee is in addition to the $20.00 fee for certification which must also be included in the application packet. The two fees must be paid by separate money orders or cashier's checks.

Post Graduate Teacher Education Program Planning

A student who holds a baccalaureate degree from an accredited institution may complete certification requirements at Athens State University. In general, this student must meet the same requirements for admission to and exit from the program as a regular undergraduate student. There are several classifications which may be appropriate for this student; consequently, the student must consult the Certification Officer to have a program plan approved before enrolling for a course. Those who plan to apply for a second degree must complete a minimum of 15 semester hours in the major area(s)/teaching fields(s) at Athens State University.

A student who holds an Alabama teacher's certificate may seek to add additional areas of certification endorsement. The Certification Officer will assist the student in program planning to meet the State Department of Education requirements.

Job Placement

It is recommended that each student place a resume' on file with the Athens State University Placement Office prior to graduation.

Support for Beginning Teachers

Athens State University graduates have completed a program which prepares teachers to be:

1. effective communicators,
2. knowledgeable scholars,
3. positive, supportive professionals,
4. resourceful curriculum planners,
5. skilled facilitators of developmental growth,
6. student-centered, reflective instructors,
7. capable classroom managers,
8. competent evaluators, and
9. lifelong learners.

In order to provide support and to assure continued application of and growth in these professional qualities, additional services are available. The School of Education of Athens State University encourages graduates and public school personnel to contact the School for any of the following support services:

1. on-going mentorship of beginning teachers,
2. curriculum laboratory resources,
3. one-on-one support conferences,
4. content support from other academic areas,
5. site visits,
6. a teaching tips column in the school publication, Teaching, Etc.

Transfers

Students transferring and requesting entry into the Teacher Education Program are required to complete a minimum of 24 semester hours of advisor approved courses in the professional and subject discipline including department designated capstone course(s), in addition to an internship at Athens State University. All transfer students will be required to take and make a grade of C or better in ED 300 Foundations of Education taken at Athens State University. No substitutions are allowed.

CAREER AND TECHNICAL EDUCATION

(Class B, Secondary Professional Certification)

Meets Requirements for State Certification Levels 1-4.

Bachelor of Science in Education - Secondary Career Technical Education

MAJOR CODE: 13.1320C

1. General and Professional Education Requirements for the degree and applicable General University Requirements.

2. At least one year compensated work experience in one of the trade and industrial education technologies is required for this degree. Documentation of passing occupational certification test is required.

3. Technical Training Credit - Up to 39 semester hours maximum credit may be awarded to those who have at least 14,000 hours of work experience in the past 10 years as a wage earner in a technical enterprise relative to the teaching area, possess a high school diploma or the equivalent or be a graduate from an approved postsecondary career/technical training program, and have 3 years of work experience within 8 years immediately preceding date of application for a teaching position in a technical enterprise.

4. **GENERAL UNIVERSITY REQUIREMENTS** **(See page 24).**

5. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Speech (SPH 106 or 107)	3 sem. hrs. __	
Literature*	**3 sem. hrs.** __	or **6 sem hrs.** __ __
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (May take finite algebra)	3 sem. hrs.___	
Natural sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs. ___
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. ___	3 sem. hrs. ___
	3 sem. hrs. ___	
History*	**3 sem. hrs. or 6 sem. hrs.**___	___
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

***Student must complete a 6 semester hour sequence either in literature or history.**

****General Psychology is recommended because it is a prerequisite to PS 334.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. **PRE-PROFESSIONAL COURSES:**

Health and physical education 3 semester hours ___
approved technical coursework from AAS/AAT/AOT degree programs, work experience,
and ACE or Armed Services assessed courses. 20 semester hours ___

TOTAL PRE-PROFESSIONAL COURSE HOURS: 19-23 semester hours

TOTAL GENERAL CORE AND PRE-PROFESSIONAL COURSE HOURS:: 60-64 Semester hours

6. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300	Foundations of Education	3 semester hours ___
SC 333	Teaching Writing and Reading in the Content Area	3 semester hours ___
PS 334	Adolescent Psychology	3 semester hours ___
SE 305	Meeting Needs of Exceptional Career/Technical Education Students	3 semester hours ___
CE 302	History and Principles of Career/Technical Education	3 semester hours ___
CE 432	Teaching Career/Technical Education	3 semester hours ___
CE 433	Learning Resources and Technology in Career/Technical Education	3 semester hours ___
CE 440	Testing and Evaluation in Career/Technical Education	3 semester hours ___
SC 486	Internship in High School Education	9 semester hours ___ ___ ___
TOTAL PROFESSIONAL EDUCATION COURSE HOURS: 33 semester hours		

Courses underlined require admission to the Teacher Education program.

7. **PROFESSIONAL COURSES:**

EC 348	Labor Economics	3 semester hours ___
CE 434	Course Development and Evaluation in Career/Technical Education	3 semester hours ___
CE 435	Industrial Health and Safety	3 semester hours ___
CE 436	Career/Technical Information and Guidance	3 semester hours ___
CE 439	Career/Technical Student Organizations	3 semester hours ___
CE 445	Functions of the Coordinator	3 semester hours ___
CE 438	Classroom/Laboratory Management	3 semester hours ___
***CE 470,471, 472	Practicum - Supervised Work Experience	9 semester hours ___ ___ ___

TOTAL HOURS FOR GRADUATION: 124-128 semester hours

***Permission of Department Chair required.**

SUGGESTED COURSE SEQUENCE
YEAR ONE

First Semester
*Speech
*English
ED 300 Foundations of Education
SE 305 Meeting Needs of Except. Career/Tech
PS 334 Adolescent Psychology
CE 302 History and Princ. Career/Tech. Ed.

Second Semester
**SC 333 Reading in Content Area
EC 438 Labor Economics
CE 432 Methods of Teach. Career/Tech. Ed.
**CE 433 Learning Resources and Tech. Career/Tech.
CE 434 Course Dev. & Eval. Career Tech. Ed.
(Elective(s)

YEAR TWO

First Semester
CE 435 Industrial Health and Safety
CE 436 Career/Technical Information Guidance
CE 438 Classroom/Lab Management
CE 439 Career Tech Organization
**CE 440 Testing and Evaluation
CE 445 Fundamentals of Coordinator
Elective(s)

Second Semester
CE 470 Practicum/Sup. Work Experience
**CE 486 Intern in Secondary Education
Elective(s)

*Take if not already completed.
**Requires admission in Teacher Education Program.

CAREER AND TECHNICAL EDUCATION
(No Class B Certification)

Bachelor of Science in Education - Career/Technical Education
MAJOR CODE: 13.1320A

The School of Education offers a program designed to prepare instructors to serve in the trade and industrial areas of instruction in technical colleges, institutes, military installations and schools. Admission to the program is dependent upon the student's validation of an acceptable trade or technology as noted by the Department of Labor Job Code. A student who does not possess such technology may not enter the program. These programs **do not** lead to Class B, Secondary Professional Certification.

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** **(See page 24).**
2. Technical training (up to 39 semester hours maximum credit.) Work experience credit may require validation by a state approved examination or other comparable examination of competency.
3. At least seven years of work experience in the past ten years as a wage earner in a technical enterprise relative to the teaching area.

4. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.**__	**or 6 sem hrs.**__ __
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (May take finite algebra)	3 sem. hrs.___	
Natural sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs. ___
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. ___	3 sem. hrs. ___
	3 sem. hrs. ___	
History*	**3 sem. hrs. or 6 sem. hrs.**___ ___	
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

***Student must complete a 6 semester hour sequence either in literature or history.**
****General Psychology is recommended because it is a prerequisite to PS 334 and PS 335.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. PRE-PROFESSIONAL COURSES:

Additional hours from approved technology courses from A.A.T. or A.A.S. degree or work experience. 20 semester hours ___

Health and physical education 3 semester hours ___

TOTAL PRE-PROFESSIONAL COURSES: 19-23 semester hours

TOTAL GENERAL CORE AND PRE-PROFESSIONAL COURSE HOURS: 60-64 Semester hours

5. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED	300 Foundations of Education	3 semester hours	___
PS	334 Adolescent Psychology **or** PS 335 Adult Psychology	3 semester hours	___
SE	305 Meeting Needs of Exceptional Career/Technical Education Students	3 semester hours	___
CE	302 History and Principles of Career/Technical Education	3 semester hours	___
CE	432 Teaching Career/Technical Education	3 semester hours	___
CE	433 Learning Resources and Technology in Career/Technical Education	3 semester hours	___
CE	434 Course Development and Evaluation in Career/Technical Education	3 semester hours	___
CE	435 Industrial Health and Safety	3 semester hours	___
CE	438 Classroom/Laboratory Management	3 semester hours	___
CE	440 Testing/Evaluation Career/Tech Ed	3 semester hours	___
CE	483,484,485 Practicum in Teaching Career/ Technical Education (In-service) **or**		
CE	487 Internship in Vocational and Technical Education (Pre-Service)	9 semester hours	___ ___ ___

TOTAL PROFESSIONAL EDUCATION COURSE HOURS 39 semester hours

6. Advisor approved electives to equal minimum degree requirements. 6 semester hours

7. *Applied Technology Practicum: CE 450, 451, 452, 470, 471, 472 0-19 semester hours

TOTAL HOURS FOR GRADUATION 124-128 semester hours

***Permission of Department Chair required.**

SUGGESTED COURSE SEQUENCE

YEAR ONE

First Semester

*Speech
*English
ED 300 Foundations of Education
SE 305 Meeting Needs of Except. Career/Tech
PS 334 Adolescent Psychology
CE 302 History and Princ. Career/Tech. Ed.

Second Semester

CE 432 Methods of Teach. Career/Tech Ed.
CE 433 Learning Resources Career/Tech Ed.
CE 434 Course Dev. & Eval. Career/Tech Ed.
PS 334 Adult Psychology or
PS 335 Adolescent Psychology

YEAR TWO

First Semester

CE 435 Industrial Health and Safety
CE 438 Classroom/Lab Management
CE 439 Career Tech Organization
**CE440 Testing and Evaluation

Second Semester

CE 483 Practicum in Career/Tech Ed.
CE 484 Practicum in Career/Tech Ed.
CE 485 Pradticum in Career/Tech Ed.

*Take if not already completed.
**Requires admission in Teacher Education Program.

Bachelor of Science in Education - Military Instructor/Staff Development in Career Technical Education
MAJOR CODE: 13.1320B

Program components for the Bachelor of Science degree with an emphasis in Career and Technical Education include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS (See page 24).**

2. Technical Training (up to 39 semester hours maximum credit) published by the American Council on Education. Work experience credit may require validation by a state approved examination or another comparable examination of competency.

3. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Speech (SPH 106 or 107)	3 sem. hrs. __	
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (May take finite algebra)	3 sem. hrs.___	
Natural sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs. ___
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. ___	3 sem. hrs. ___
	3 sem. hrs. ___	
History*	**3 sem. hrs. or 6 sem. hrs.___**	**___**
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

***Student must complete a 6 semester hour sequence either in literature or history.**
****General Psychology is recommended because it is a prerequisite to PS 334 and PS 335.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. PRE-PROFESSIONAL COURSES:

Additional hours from approved technology courses from A.A.T. or A.A.S. degree or work experience. 16-20 semester hours ___

Health and physical education 3 semester hours ___

TOTAL PRE-PROFESSIONAL COURSE HOURS: 19-23 semester hours

TOTAL GENERAL CORE AND PRE-PROFESSIONAL COURSES: 60-64 Semester hours

4. **CAREER/TECHNICAL EDUCATION COURSES REQUIRED:**

ED	300 Foundations of Education	3 semester hours	___
PS	334 Adolescent Psychology **or** PS 335 Adult Psychology	3 semester hours	___
SE	305 Meeting the Needs of Exceptional Career/Tech Education Students	3 semester hours	___
CE	302 History and Principles of Career/Technical Education	3 semester hours	___
CE	432 Methods of Teaching Career/Technical Education	3 semester hours	___
CE	433 Learning Resources and Technology in Career/Technical Education	3 semester hours	___
CE	434 Course Development and Evaluation in Career/Technical Education	3 semester hours	___
CE	435 Industrial Health and Safety	3 semester hours	___
CE	438 Classroom/Laboratory Management	3 semester hours	___
CE	440 Testing and Evaluation in Career/Technical Education	3 semester hours	___
CE	446 Individualizing Instruction in the Career/ & Technical Programs	3 semester hours	___
CE	483, 484, 485 Practicum in Teaching Career/Technical Ed. (Select 1)	3 semester hours	___

TOTAL COURSE HOURS 36 Semester Hours

5. Advisor approved electives to equal minimum degree requirements. 9 semester hours

6. *Applied Technology Practicums: CE 450, 451, 452, 470, 471, 472 0-19 semester hours

TOTAL HOURS FOR GRADUATION 124-128 semester hours

***Permission of Department Chair required.**

SUGGESTED COURSE SEQUENCE
YEAR ONE

First Semester

ED 300 Foundations of Education
SE 305 Meeting Needs of Except. Career/Tech
PS 334 Adolescent Psychology
CE 302 History and Princ. Career/Tech. Ed.
Elective(s) as needed

Second Semester

CE 432 Methods of Teach. Career/Tech. Ed.
CE 433 Learning Resources and Tech. Career/Tech.
CE 434 Course Dev. & Eval. Career Tech. Ed.
CE 435 Industrial Health and Safety
(Elective(s)

YEAR TWO

First Semester

CE 438 Classroom/Lab Management
CE 440 Testing and Evaluation
CE 446 Individualized Inst. Career/Tech Ed
Elective(s)

Second Semester

Select one:
CE 483 Practicum in Career/Tech Ed.
CE 484 Practicum in Career/Tech Ed.
CE 485 Practicum in Career/Tech Ed.
Elective(s) as needed
NOTE: General Studies Curriculum Core Requirements

(English and speech) should be completed prior to career/technical courses.

EARLY CHILDHOOD EDUCATION P-3 RECOMMENDED SEQUENCE

First Semester (Fall)

ED 300	Foundations of Education	3 semester hours	___
ED 303	Professional Education Communication	3 semester hours	___
ED 305	Computers & Media for Teachers	3 semester hours	___
ER 310	Principles of Early Childhood Education	3 semester hours	___
PS 332	Child Psychology	3 semester hours	___
		Total	**15 sem. hrs.**

Second Semester (Spring)

ED 312	The Child in a Diverse Society	3 semester hours	___
ED 321	Teaching Language Arts	3 semester hours	___
ER 302	Theories and Strategies in Language Development	3 semester hours	___
ER 318	Literature in Early Childhood Education	3 semester hours	___
SE 301	Introduction to Exceptional Learners	3 semester hours	___
		Total	**15 sem. hrs.**

Summer Term

ER 350	Administering and Managing Early Childhood Programs	3 semester hours	___
ER 460, 461, or 462	Practicum	3-9 semester hours	___ ___ ___
PE 431	Motor Development and Physical Activities	3 semester hours	___
		Total	**9-15 sem. hrs.**

Third Semester (Fall)

ED 420	Teaching Science	3 semester hours	___
ED 423	Teaching Social Studies	3 semester hours	___
ED 323	Teaching Reading in the Primary Grades	3 semester hours	___
ED 324	Teaching Mathematics in Primary Grades	3 semester hours	___
ER 470	Early Childhood Curriculum	3 semester hours	___
		Total	**15 sem. hrs.**

Fourth Semester (Spring)

AR 310	Fine Arts Connection	3 semester hours	___
ER 480	Internship in Early Childhood Education	9 semester hours	___ ___ ___
		Total	**12 sem. hrs.**
		Grand Total	**63 sem. hrs.**

Bachelor of Science in Education - Early Childhood Education Major (P-3)

MAJOR CODE: 13.1204

Program components for the Bachelor of Science in Education with a major in Early Childhood Education include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** (See page 24).

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
Area I Total:		**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages**, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher	3 sem. hrs.___	
BIO 101 Introduction to Biology I or BIO 103 Principles of Biology I	4 sem. hrs.___	
BIO 102 Introduction to Biology II or BIO 104 Principles of Biology II	4 sem. hrs. ___	
Area III Total:		**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology or sociology.)	3 sem. hrs. __	3 sem hrs.__
	3 sem. hrs. __	
History *	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

***Students must complete a 6 semester hour sequence either in Area I. Literature or in Area IV. History.**
****Spanish is recommended.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)
Students must choose from the courses listed below:

Two additional science courses, other than biology, representing two disciplines such as chemistry, geology, physics, or astronomy.
(May include PHS 111 Physical Science I) 8 semester hours ___ ___
Mathematics Course (MTH 100 or above) 3 semester hours ___
Additional Mathematics Course (MTH 110, MTH 112 or above) 3 semester hours ___
CHD 209 Infant and Toddler Program 3 semester hours ___
CHD 106 Children's Health, Safety, and Nutrition 3 semester hours ___
Must take one of the following: 3 semester hours ___
CHD 103 Language and Literacy Development in Preschool Children
CHD 204 Methods and Materials for Teaching Preschool Children
CHD 205 Developing Programs for Preschool Children
CHD 215 Practicum in Early Childhood Education

TOTAL MAJOR PREREQUISITE HOURS: 23 SEMESTER HOURS
TOTAL CORE AND MAJOR PREREQUISITE HOURS: 64 SEMESTER HOURS

3. PROFESSIONAL EDUCATION REQUIREMENTS:

***AR 310 Fine Arts Connection 3 semester hours ___
ED 300 Foundations of Education 3 semester hours ___
ER 302 Theories and Stages in Language Development 3 semester hours ___
ED 303 Professional Education Communication 3 semester hours ___
ED 305 Computers and Media for Teachers 3 semester hours ___
ER 310 Principles of Early Childhood Education 3 semester hours ___
ED 312 The Child in a Diverse Society 3 semester hours ___
ER 318 Literature in Early Childhood Education 3 semester hours ___
ED 321 Teaching Language Arts 3 semester hours ___
ED 323 Teaching Reading in the Primary Grades 3 semester hours ___
ED 324 Teaching Mathematics in the Primary Grades 3 semester hours ___
ER 350 Administering and Managing Early Childhood Programs 3 semester hours ___
ED 420 Teaching Science 3 semester hours ___
ED 423 Teaching Social Studies 3 semester hours ___
ER 470 Early Childhood Curriculum (Capstone Course) 3 semester hours ___
ER 480 Internship in Early Childhood Education 9 semester hours ___ ___ ___
PE 431 Motor Development and Physical Activities 3 semester hours ___
***PS 332 Child Psychology 3 semester hours ___
*** SE 301 Introduction to Exceptional Learners 3 semester hours ___
TOTAL PROFESSIONAL EDUCATION COURSE HOURS 63 semester hours

Underlined courses require admission to the Teacher Education Program.

TOTAL HOURS FOR GRADUATION 124-128 semester hours

***Students who have taken CHD 101 Child Growth and Development, CHD 102 Creative Experiences, and CHD 210 Educating the Exceptional Child do not take SE 301 Introduction to Exceptional Learners, PSY 332 Child Psychology, or AR 310 Fine Arts Connection. These students must take the equivalent number of hours by taking the following courses:

ER 460, 461, 462 Practicum in Early Childhood Development 3, 6 or 9 semester hours___ ___ ___

Substitutions for SE 301 Introduction to Exceptional Learners, PS 332 Child Psychology, and AR 310 Fine Arts Connection are not permitted for any students other than Early Childhood majors.

Bachelor of Science in Education - Elementary Education Major (K-6)

MAJOR CODE: 13.1202

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** **(See page 24).**

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area 1 Total:	6 sem. hrs.

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area II total.)	Area II Total:	12 sem. hrs.

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher	3 sem. hrs.___
BIO 101 Introduction to Biology I or BIO 103 Principles of Biology I	4 sem. hrs.___
BIO 102 Introduction to Biology II or BIO 104 Principles of Biology II	4 sem. hrs. ___
Area III Total:	11 sem. hrs.

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology **or sociology.)	3 sem. hrs. __	3 sem hrs.__
	3 sem. hrs. __	
History *	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area IV total.)	Area IV Total:	12 sem. hrs.

***Students must complete a 6 semester hour sequence either in Area I. Literature or in Area IV. History.**
****General Psychology is recommended because it is a prerequisite to PS 332.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. MAJOR PREREQUISITE COURSES (PREPROFESSIONAL)

Two additional science courses, other than biology, representing two disciplines such as chemistry, geology, physics, or astronomy.

(May include PHS 111 Physical Science I and/or PHS 112)	8 semester hours	___ ___
Mathematics Course (MTH 100 or above)	3 semester hours	___
Additional Mathematics Course (MTH 110, MTH 112 or above)	3 semester hours	___
Health and Physical Education	3 semester hours	___
Electives	5-7 semester hours	___ ___ ___

TOTAL MAJOR PREREQUISITE HOURS: 19-23 SEMESTER HOURS

TOTAL GENERAL CORE AND MAJOR PREREQUISITE HOURS: 60-64 Semester hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED	300 Foundations of Education	3 semester hours	___
ED	305 Computers and Media for Teachers	3 semester hours	___
ED	312 The Child in a Diverse Society	3 semester hours	___
EL	315 Principles of Teaching Young Children	3 semester hours	___
EL	320 Children's Literature	3 semester hours	___
ED	321 Teaching Language Arts	3 semester hours	___
ED	323 Teaching Reading in the Primary Grades	3 semester hours	___
ED	324 Teaching Mathematics in the Primary Grades	3 semester hours	___
ED	361 Measurement and Management	3 semester hours	___
EL	413 Teaching Reading in the Intermediate Grades	3 semester hours	___
ED	420 Teaching Science	3 semester hours	___
ED	423 Teaching Social Studies	3 semester hours	___
EL	424 Teaching Mathematics in the Intermediate Grades	3 semester hours	___
EL	472 Planning and Organization of the Elementary School Curriculum (Capstone Course)	3 semester hours	___
EL	482 Internship in Elementary Education	9 semester hours	___ ___ ___
AR	310 Fine Arts Connections for Elementary Teachers	3 semester hours	___
PE	431 Motor Development and Physical Activities	3 semester hours	___
PS	332 Child Psychology	3 semester hours	___
SE	301 Introduction to Exceptional Learners	3 semester hours	___

TOTAL PROFESSIONAL EDUCATION COURSE HOURS 63 semester hours

Elective: ED 303 Professional Education Communication 0-3 semester hours ___

Underlined courses require admission to the Teacher Education Program.

TOTAL HOURS FOR GRADUATION 124-128 semester hours

4. A second major is **not** required.

Bachelor of Science in Education - Elementary Education Major (K-6)

MAJOR CODE: 13.1202

ELEMENTARY K-6 RECOMMENDED SEQUENCE

First Semester (Fall)

ED 300	Foundations of Education	3 semester hours	___
ED 305	Computers & Media for Teachers	3 semester hours	___
ED 312	The Child in a Diverse Society	3 semester hours	___
ED 324	Teaching Mathematics in the Primary Grades	3 semester hours	___
PS 332	Child Psychology	3 semester hours	___
SE 301	Introduction to Exceptional Learners	3 semester hours	___
		Total	**18 sem. hrs.**

Second Semester (Spring)

ED 321	Teaching Language Arts	3 semester hours	___
ED 323	Teaching Reading in the Primary Grades	3 semester hours	___
EL 315	Principles of Teaching Young Children	3 semester hours	___
EL 320	Children's Literature	3 semester hours	___
EL 424	Teaching Mathematics in the Intermediate Grades	3 semester hours	___
PE 431	Motor Development (Child Psychology is a prerequisite)	3 semester hours	___
		Total	**18 sem. hrs.**

Third Semester (Fall)

ED 361	Measurement and Management	3 semester hours	___
ED 420	Teaching Science	3 semester hours	___
ED 423	Teaching Social Studies	3 semester hours	___
EL 413	Teaching Reading in the Intermediate Grades	3 semester hours	___
EL 472	Planning and Organizing the Elementary School Curriculum	3 semester hours	___
		Total	**15 sem. hrs.**

Fourth Semester (Spring)

AR 310	Fine Arts Connection	3 semester hours	___
EL 482	K-6 Internship	9 semester hours	___ ___ ___

FOR ELEMENTARY MAJORS WHO WISH TO RECEIVE AN ENDORSEMENT FOR MIDDLE SCHOOL:

Biology

For the student obtaining elementary certification who wishes to add a middle school endorsement (grades 4-8) in **biology**, the following courses are required:

SC 431 Teaching in the Middle/High School 3 semester hours___
SC 333 Teaching Reading in the Content Areas 3 semester hours___
PS 334 Adolescent Psychology 3 semester hours___
Teaching field courses from approved biology program, grades 6-12
Pre-Calculus Algebra or higher 3 semester hours___
Chemistry I 4 semester hours___
Principles of Biology I & II 8 semester hours___
Human Anatomy/Physiology I or II 4 semester hours___
Microbiology 4 semester hours___
BI 301 Cell Structure and Function 4 semester hours___
BI 302 Genetics 4 semester hours___
BI 303 General Ecology 4 semester hours___

History

For the student obtaining elementary certification who wishes to add a middle school endorsement (grades 4-8) in **history**, the following courses are required:

SC 431 Teaching in the Middle/High School 3 semester hours___
SC 333 Teaching Reading in the Content Areas 3 semester hours___
PS 334 Adolescent Psychology 3 semester hours___
Teaching field courses from approved history program, grades 6-12:
HY 101 and 102 Western Civilization 6 semester hours___ ___
HY 201 and 202 U.S. History 6 semester hours___ ___
HY 300 Historiography 3 semester hours___
HY 302 Alabama History 3 semester hours___
HY 304 and 306 American History 6 semester hours___ ___
HY 334 and 342 Non-American History 6 semester hours___ ___

General Science

For the student obtaining elementary certification who wishes to add a middle school endorsement (grades 4-8) in **general science,** the following courses are required:

SC 431 Teaching in the Middle/High School 3 semester hours___
SC 333 Teaching Reading in the Content Areas 3 semester hours___
PS 334 Adolescent Psychology 3 semester hours___
Teaching field courses from approved general science program, grades 6-12.
Principles of Biology I and II 8 semester hours___ ___
BI 301 Cell Structures and Function 4 semester hours___
CH I or CH 303 4 semester hours___
CH II or CH 304 4 semester hours___
Astronomy or GS 300 4 semester hours___
GS 301 Atmospheric Science 4 semester hours___

English/Language Arts

For the student obtaining elementary certification who wishes to add a middle school endorsement (grades 4-8) in **English/ Language Arts**, the following courses are required:

SC 431 Teaching in the Middle/High School 3 semester hours___
SC 333 Teaching Reading in the Content Areas 3 semester hours___
PS 334 Adolescent Psychology 3 semester hours___
Teaching field courses from approved English/language arts program, grade 6-12:
EH 303 Journalism 3 semester hours___
EH 311 Drama Production 3 semester hours___
EH 312 Dramatic Literature 3 semester hours___
EH 401 Speech: Conflict Management 3 semester hours___
EH 414 History of the English Language 3 semester hours___
EH 431 Poetry and Poetics 3 semester hours___
EH 433 Fiction 3 semester hours___
Electives 6 semester hours___

Mathematics

For the student with elementary certification who wishes to add a middle school endorsement (grades 4-8) in **mathematics**, the following courses are required:

SC 431 Teaching in the Middle/High School 3 semester hours___
SC 333 Teaching Reading in the Content Areas 3 semester hours___
PS 334 Adolescent Psychology 3 semester hours___
Teaching field courses from approved mathematics program, grade 6-12:
Calculus I, II, III, IV w/labs 16 semester hours___ ___
..... ___ ___ ___
Computer Programming course 3 semester hours___
Linear Algebra or MA 310 3 semester hours___
MA 314 College Geometry 3 semester hours___
MA 441 Special Topics 3 semester hours___

Social Science

For the student with elementary certification who wishes to add a middle school endorsement (grades 4-8) in **social science**, the following courses are required:

SC 431 Teaching in the Middle/High School 3 semester hours___
SC 333 Teaching Reading in the Content Areas 3 semester hours___
PS 334 Adolescent Psychology 3 semester hours___
Teaching field courses from approved mathematics program, grade 6-12:
American National Government or PO 304 3 semester hours___
PO 303 State and Local Government 3 semester hours___
HY 308 America and the World 3 semester hours___
HY 300 Historiography 3 semester hours___
GO 309 North America and Europe 3 semester hours___
GO 310 South America, Africa, and Asia 3 semester hours___
EC 320 Intro to International Commerce 3 semester hours___
PO 453 International Relations 3 semester hours___
PS 200 General Psychology 3 semester hours___
SO 200 Intro9 to Sociology 3 semester hours___

NOTE: IF THE FOURTEEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 4-6, AN ADDITIONAL SEVEN-WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

HEALTH, PHYSICAL EDUCATION, AND WELLNESS DEPARTMENT

The Physical Education curriculum at Athens State University consists of courses which meet the requirements of the State Department of Education for Class "B" Teacher Certification for the professional programs in Physical Education (7-12). A Bachelor of Science (in Physical Education (Wellness)) degree and a Bachelor of Education in Health Education is also offered.

Bachelor of Science in Education - Physical Education Major
P-12 Certification
MAJOR CODE: 13.12051

Program components for the Bachelor of Science in Education degree with a major in Physical Education, N-12 certification, include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS (See page 24).**

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	6 sem. hrs.

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__ or 6 sem hrs.__ __**	
(Do not exceed Area II total.)	Area II Total:	12 sem. hrs.

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (Students may take MTH 110 Finite Math)	3 sem. hrs.___	
Natural Sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs.___
	Area III Total:	11 sem. hrs.

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. __	3 sem hrs. __
	3 sem. hrs. __	
History *	**3 sem. hrs.__ or 6 sem hrs.__ __**	
(Do not exceed Area IV total.)	Area IV Total:	12 sem. hrs.

***Students must complete a 6 semester hour sequence either in Area I. Literature or in Area IV. History.**
****General Psychology is recommended because it is a prerequisite to PS 332 and PS 334.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. Major Prerequisite Courses (Preprofessional):

Foundations of Physical Education or		
HPE 326 History and Principles of P.E.	3 semester hours	___
Personal Health	3 semester hours	___
Safety and First Aid	3 semester hours	___
Care and Prevention of Athletic Injuries	3 semester hours	___
Sports Officiating or		
HPE 301 Theory of Coaching and Officiating	3 semester hours	___
Physical Education Activity (At least 3 different activity courses)	3 semester hours	___ ___ ___
Anatomy and Physiology	3 semester hours	___
TOTAL MAJOR PREREQUISITE COURSES:	**19-23 Semester hours**	

TOTAL GENERAL CORE AND MAJOR PREREQUISITE COURSE HOURS 60-64 Semester hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	3 semester hours	___
ED 305 Computers and Media for Teachers	3 semester hours	___
SC 333 Teaching Reading in the Content Area	3 semester hours	___
HPE488 Internship in N-12 Education	9 semester hours	___ ___ ___
HPE401 Measurement and Evaluation of Physical Education	3 semester hours	___
HPE430 Teaching Physical Education, in the Elementary School (Capstone course)	3 semester hours	___
HPE440 Teaching Physical Education in High School (Capstone course)	3 semester hours	___
PS 332 Child Psychology	3 semester hours	___
PS 334 Adolescent Psychology	3 semester hours	___
SE 301 Introduction to Exceptional Learners	3 semester hours	___
TOTAL PROFESSIONAL EDUCATION COURSE HOURS:	**36 semester hours**	

Courses underlined require admission to the Teacher Education Program.

4. **PROFESSIONAL COURSES:**

HPE320 Analysis and Teaching of Team Sports	3 semester hours	___
HPE321 Analysis and Teaching of Rhythms and Dance	3 semester hours	___
HPE322 Analysis and Teaching of Individual Sports	3 semester hours	___
HPE323 Aquatics and Advanced Lifesaving	3 semester hours	___
HPE325 Kinesiology	3 semester hours	___
HPE327 Physiology of Exercise	3 semester hours	___
HPE350 Adapted Physical Education and Sports	3 semester hours	___
HPE355 Health-Related Fitness and Nutrition	3 semester hours	___
HPE400 Organization and Administration of Physical Education	3 semester hours	___
HPE431 Motor Development and Physical Activities	3 semester hours	___
TOTAL PROFESSIONAL COURSE HOURS:	**30 semester hours**	

TOTAL HOURS FOR GRADUATION 124-128 semester hours

A second major is **not** required.

Health Certification (Major Code: 13.1205) (PENDING SDE APPROVAL.)

For the student who has completed or is completing a second major who wishes a high school endorsement in health, the following courses are required:

Personal or Community Health	3 semester hours	___
First Aid and Safety	3 semester hours	___
HPE 323 Aquatics and Advanced Lifesaving	3 semester hours	___
HPE 325 Kinesiology	3 semester hours	___
HPE 327 Physiology of Exercise	3 semester hours	___
HPE 340 Medical and Biological Visualization	3 semester hours	___
HPE 354 Contemporary Health and Physical Education Activities	3 semester hours	___
HPE 355 Health Related Fitness and Nutrition	3 semester hours	___
HPE 420 Teaching Health in the High School	3 semester hours	___
HPE 427 Principles of Exercise Prescription and Assessment	3 semester hours	___
TOTAL	**33 SEMESTER HOURS**	

NOTE: A SEVEN-WEEK INTERNSHIP MUST BE COMPLETED IN HEALTH.

Bachelor of Science in Education - Physical Education Major
P-12 Certification
MAJOR CODE: 13.1205I

PHYSICAL EDUCATION SUGGESTED COURSE SEQUENCE
YEAR ONE

Fall Semester

***ED 300	Foundations of Education	3 semester hours	___
ED 305	Computers & Media for Teachers	3 semester hours	___
HPE 320	Analysis & Teaching of Team Sports	3 semester hours	___
HPE 321	Analysis & Teaching of Rhythms and Dance	3 semester hours	___
HPE 326	History and Prin. of P.E. (if sub. course not taken in Area V	3 semester hours	___
HPE 333	Care and Prevention of Athletic Injuries (If substitute course not taken in Area V)	3 semester hours	___
	Total	12-18 sem. hrs.	

Spring Semester

PS 332	Child Psychology	3 semester hours	___
HPE 322	Analysis & Teach. of Individual Sports	3 semester hours	___
HPE 323	Aquatics and Advanced Lifesaving	3 semester hours	___
HPE 325	Kinesiology (Prerequisite - Human Anatomy and Physiology)	3 semester hours	___
HPE 350	Adapted P.E. & Sports	3 semester hours	___
HPE 355	Health-Related Fitness & Nutrition	3 semester hours	___
	Total	18 sem. hrs.	

Summer Semester

HPE 327	Physiology of Exer. (Prerequisite - Human Anatomy and Physiology)	3 semester hours	___
HPE 400	Org. & Adm. of P.E.	3 semester hours	___
PS 334	Adolescent Psychology	3 semester hours	___
SE 301	Introduction to Exceptional Learners	3 semester hours	___
	Total	12 sem. hrs.	

Fall Semester

**PE 430	Teach. P.E. in the Elem. School (Prerequisite - 3 Analysis and Teaching Classes)	3 semester hours	___ ___ ___
*SC 333	Teaching Reading in Content Area	3 semester hours	___
*HPE 401	Measurement and Evaluation of P.E.	3 semester hours	___
**HPE 440	Teaching P.E. in High School (Prerequisite - 3 Analysis and Teaching Classes)	3 semester hours	___ ___ ___
HPE 431	Motor Development & Physical Activity (prerequisite - Child Psychology)	3 semester hours	___
	Total	15 sem. hrs.	
	Grand Total	63 sem. hrs.	

Spring Semester

*HPE 488	Internship in N-12 Education	9 semester hours	___ ___ ___

*Requires Admission to Teacher Education Program
**Capstone Courses - Must be taken at Athens State University
***Must be taken at Athens State University

Bachelor of Science in Education - Health Education Major
6-12 Certification (Approval Pending, Check with P.E. Department)
MAJOR CODE: 13.1205

Program components for the Bachelor of Science in Education degree with a major in Health Education, 7-12 certification, include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** (See page 24).

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area 1 Total:	6 sem. hrs.

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __		
Speech (SPH 106 or SPH 107)	3 sem. hrs. __		
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __		
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__**	__
(Do not exceed Area II total.)	Area II Total:	12 sem. hrs.	

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (Students may take MTH 110 Finite Math)	3 sem. hrs.___		
Natural Sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs.___	
	Area III Total:	11 sem. hrs.	

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. __	3 sem hrs. __	
	3 sem. hrs. __		
History *	**3 sem. hrs.__**	**or 6 sem hrs.__**	__
(Do not exceed Area IV total.)	Area IV Total:	12 sem. hrs.	

***Students must complete a 6 semester hour sequence either in Area I. Literature or in Area IV. History.**
****General Psychology is recommended because it is a prerequisite to PS 332 and PS 334.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. MAJOR PREREQUISITE COURSES (PREPROFESSIONAL):

Foundation of Physical Education or HPE 326 History and Principles of P.E. 3 sem. hrs. __
Personal Health 3 sem. hrs. __
Community Health 3 sem. hrs. __
Safety and First Aid 3 sem. hrs. __
Care and Prevention of Athletic Injuries 3 sem. hrs. __
Physical Education Activity (3 different activity courses) 3 sem. hrs. __
Anatomy and Physiology 3 sem. hrs. __
TOTAL MAJOR PREREQUISITE COURSES 19-23 SEM. HRS.
TOTAL GENERAL EDUCATION AND MAJOR PREREQUISITE COURSES 60-64 SEM. HRS.

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundation of Education 3 sem. hrs. __
ED 305 Computers and Media 3 sem. hrs. __
SC 333 Teaching Reading and Writing in the Content Area 3 sem. hrs. __
HPE 490 Internship in 7-12 Education 3 sem. hrs. __
HPE 401 Measurement and Evaluation of Physical Education 3 sem. hrs. __
HPE 420 Teaching Health in the High School 3 sem. hrs. __
PS 334 Adolescent Psychology 3 sem. hrs. __
SE 301 Introduction to Exceptional Learners 3 sem. hrs. __
SC 331 Issues in Secondary Education 3 sem. hrs. __
TOTAL PROFESSIONAL EDUCATION COURSE HOURS: 33 SEM. HRS.

Courses underlined require admission to the Teacher Education Program.

4. **PROFESSIONAL COURSES:**

HPE 323 Aquatics and Advanced Lifesaving 3 sem. hrs. __
HPE 327 Physiology of Exercise 3 sem. hrs. __
HPE 340 Medical and Biological Visualization 3 sem. hrs. __
HPE 354 Contemporary Health and Physical Education Activities 3 sem. hrs. __
HPE 355 Health Related Fitness and Nutrition 3 sem. hrs. __
HPE 427 Principles of Exercise Prescription and Assessment 3 sem. hrs. __
TOTAL PROFESSIONAL COURSE HOURS 18 SEM. HRS.

A SECOND MAJOR IS REQUIRED. The student must satisfy any additional General Education and/or Professional Education Requirements inherent to the second major which are not stated above.

TOTAL HOURS FOR GRADUATION 124-128 SEM. HRS.

Bachelor of Science in Physical Education (Wellness)
MAJOR CODE: 13.1314

A major in Physical Education with a Bachelor of Science Degree responds to a need to prepare professionals with expertise in fitness, sports and recreation who become employed in such areas as business, industry, service agencies, correctional institutions and hospitals. All Teacher Education Program requirements apply to this degree.

Program components for the Bachelor of Science in Physical Education degree include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS (See page 24).**

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __	
	Area I Total:	**6 sem. hrs.**	

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __		
Speech (SPH 106 or SPH 107)	3 sem. hrs. __		
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __		
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__**	__
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**	

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (Students may take MTH 110 Finite Math)	3 sem. hrs.___		
Natural Sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs.___	
	Area III Total:	**11 sem. hrs.**	

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. __	3 sem hrs.__	
	3 sem. hrs. __		
History *	**3 sem. hrs.__**	**or 6 sem hrs.__**	__
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**	

***Students must complete a 6 semester hour sequence either in Area I. Literature or in Area IV. History.**
****General Psychology is recommended because it is a prerequisite to PS 332, 334, and 335.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V: MAJOR PREREQUISITE COURSES (Preprofessional):

Fundamentals of Fitness	3 semester hours	___
Foundation of Physical Education	3 semester hours	___
Personal Health	3 semester hours	___
Safety and First Aid	3 semester hours	___
Physical Education Activity (At least 3 different activity courses)	3 semester hours	___ ___ ___
Anatomy and Physiology	4 semester hours	___

TOTAL MAJOR PREREQUISITE COURSES: 19-23 Semester hours

TOTAL GENERAL CORE AND MAJOR PREREQUISITE COURSE HOURS 60-64 Semester hours

3. PROFESSIONAL COURSES:

HPE 301 Coaching Theory and Officiating	3 semester hours	___
HPE 325 Kinesiology	3 semester hours	___
HPE 326 History and Principles of Physical Education	3 semester hours	___
HPE 327 Physiology of Exercise	3 semester hours	___
HPE 333 Care and Prevention of Athletic Injuries	3 semester hours	___
HPE 354 Contemporary Health and Physical Education Activities	3 semester hours	___
HPE 355 Health Related Fitness and Nutrition	3 semester hours	___
HPE 400 Organization and Administration of Physical Education	3 semester hours	___
HPE 401 Measurement and Evaluation of Physical Education	3 semester hours	___
HPE 427 Principles of Exercise Prescription and Assessment	3 semester hours	___
HPE 431 Motor Development and Physical Activity	3 semester hours	___
PS 332 Child Psychology	3 semester hours	___
PS 334 Adolescent Psychology	3 semester hours	___
PS 335 Adult Psychology	3 semester hours	___
SO 471 Aging in a Mass Society	3 semester hours	___
PSA 349 Human Resources Management	3 semester hours	___
PSA 445 Contemporary Issues Seminar in Public Safety	3 semester hours	___
PSA 465 Senior Research Project	4 semester hours	___
HPE 480 Internship in Physical Education	9 semester hours	___ ___ ___

TOTAL PROFESSIONAL COURSE HOURS: 64 semester hours

TOTAL HOURS FOR GRADUATION 124-128 semester hours

A minor is **not** required.

SECONDARY EDUCATION

The student who wishes to be certified to teach at the secondary level (grades 6-12) must successfully complete an approved composite major or two majors. The requirements for completing a teacher education program in high school follows:

Bachelor of Science in Education - Secondary Education Major

Program components for the Bachelor of Science in Education with a major in Secondary Education include:

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS (See page 24).**
2. General studies curriculum core requirements.
3. Appropriate field experience requirements.
4. High School Education majors desiring middle school endorsement (grades 4-8) should refer to their respective high school certification requirements for applicable middle school endorsements.

Bachelor of Science in Education - Secondary Education: Biology

MAJOR CODE: 13.1205A

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS (See page 24).**

2. **GENERAL STUDIES CURRICULUM CORE:**

Area. I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	6 sem. hrs.

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__ or**	**6 sem hrs.__ __**
(Do not exceed Area II total.)	Area II Total:	12 sem. hrs.

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher	3 sem. hrs.___	
BIO 101 Introduction to Biology I or BIO 103 Principles of Biology I	4 sem. hrs.___	
BIO 102 Introduction to Biology II or BIO 104 Principles of Biology II	4 sem. hrs. ___	
	Area III Total:	11 sem. hrs.

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. __	3 sem hrs. __
	3 sem. hrs. __	
History *	**3 sem. hrs.__ or**	**6 sem hrs.__ __**
(Do not exceed Area IV total.)	Area IV Total:	12 sem. hrs.

***Students must complete a 6 semester hour sequence either in Area I. Literature or in Area IV. History.**
****General Psychology is recommended because it is a prerequisite to PS 334.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)

*Principles of Biology I	4 sem. hrs. __
*Principles Biology II	4 sem. hrs. __
Chemistry I	4 sem. hrs. __
Human Anatomy and Physiology I **or** II	4 sem. hrs. __
Microbiology	4 sem. hrs. __
Health and Physical Education	3 sem. hrs. __

TOTAL MAJOR PREREQUISITE COURSES: 23 semester hours

TOTAL GENERAL CORE AND MAJOR PREREQUISITE COURSES: 64 semester hours

4. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	3 semester hours ___
ED 305 Computers and Media for Teachers	3 semester hours ___
SC 331 Issues in Secondary Education	3 semester hours ___
SC 333 Teaching Writing and Reading in the Content Areas	3 semester hours ___
ED 361 Measurement and Management	3 semester hours ___
SC 431 Teaching in Middle School/High School (Capstone course)	3 semester hours ___
SC 486 Internship in High School Education	9 semester hours ___ ___ ___
PS 334 Adolescent Psychology	3 semester hours ___
SE 301 Introduction to Exceptional Learners	3 semester hours ___
TOTAL PROFESSIONAL EDUCATION HOURS:	**33 semester hours**

SC 333, ED 361, and SC431 cannot be taken concurrently without prior approval.
Underlined courses require admission to the Teacher Education Program.

5. **PROFESSIONAL COURSES:**

BI 301 Cell Structure and Function	4 semester hours ___
BI 302 Genetics	4 semester hours ___
BI 303 General Ecology	4 semester hours ___
Select 18 semester hours from the following courses or Faculty Advisor approved electives:	
BI 321 Conservation Biology	3 semester hours ___
BI 322 Human Genetics	3 semester hours ___
BI 341 Biogeography	3 semester hours ___
BI 342 Economic Botany	3 semester hours ___
BI 409 Biochemistry	3 semester hours ___
BI 411 Invertebrate Systematics and Morphology **or** BI 412 Invertebrate Development and Function	4 semester hours ___
BI 413 Vertebrate Biology **or** BI 414 Comparative Vertebrate Anatomy	4 semester hours ___
BI 420 Field Vertebrate Zoology I: Ichthyology and Herpetology	4 semester hours ___
BI 422 Field Vertebrate Zoology II: Ornithology and Mammalogy	4 semester hours ___
BI 424 Animal Physiology	4 semester hours ___
BI 431 Plant Systematics and Morphology **or** BI 432 Plant Development and Function	4 semester hours ___
BI 440 Biotechnology	3 semester hours ___

TOTAL PROFESSIONAL HOURS: 30 semester hours

TOTAL HOURS FOR GRADUATION 124-128 semester hours

***Take a biology elective for each of these if taken in Area III.**

6. An approved second teaching major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

7. A minor is **not** required.

Bachelor of Science in Education - Secondary Education: Chemistry

MAJOR CODE: 13.1205B

1. **Applicable General University Requirements (See page 24).**

2. A 36-37 semester hour major; at least four chemistry courses must be taken at Athens State University. Approval of all transfer chemistry credits for advanced standing and approval of program projection by the student's chemistry advisor is required.

3. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
Area I Total:		**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or Precalculus Algebra and Trigonometry	3-4 sem. hrs. __	
College Chemistry I (Students are encouraged to take this course.)	4 sem. hrs. __	
College Chemistry II (Students are encouraged to take this course.)	4 sem. hrs. __	
Area III Total:		**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. __	3 sem hrs. __
	3 sem. hrs. __	
History *	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

***Students must complete a 6 semester hour sequence either in Area I. Literature or in Area IV. History.**
****General Psychology is recommended because it is the prerequisite to PS 334.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL)

*Pre-Calculus Trigonometry
Calculus I 3 sem. hrs. __
Calculus II 3 sem. hrs. __
Calculus III 3 sem. hrs. __
Calculus IV 3 sem. hrs. __
Physics I or PY 301 4 sem. hrs. __
Organic Chemistry 4 sem. hrs. __
Health and Physical Education 3 sem. hrs. __

*If Pre-calculus algebra (3 semester hours) is completed to satisfy the Area III Mathematics requirement, the student should complete precalculus trigonometry (3 semester hours) in addition to precalculus algebra. Completion of precalculus algebra and trigonometry (4 semester hours) will satisfy both the Area III Mathematics requirement and the Area V requirement for trigonometry. (If the student has the pre-requisites to enroll in Calculus I, the student may waive pre-calculus and triginometry.

TOTAL PRE-PROFESSIONAL COURSES: 19-23 semester hours

TOTAL GENERAL CORE AND PRE-PROFESSIONAL HOURS: 60-64 Semester hours

4. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED	300 Foundations of Education	3 semester hours	___
ED	305 Computers and Media for Teachers	3 semester hours	___
SC	331 Issues in Secondary Education	3 semester hours	___
SC	333 Teaching Writing and Reading in the Content Areas	3 semester hours	___
ED	361 Measurement and Management	3 semester hours	___
SC	431 Teaching in Middle School/High School (Capstone course)	3 semester hours	___
SC	486 Internship in High School Education	9 semester hours	___ ___ ___
PS	334 Adolescent Psychology	3 semester hours	___
SE	301 Introduction to Exceptional Learners	3 semester hours	___
TOTAL PROFESSIONAL EDUCATION HOURS: 33 semester hours			

SC 333, ED 361 and SC 431 cannot be taken concurrently without prior approval.

Underlined courses require admission to the Teacher Education program.

5. **PROFESSIONAL COURSES:**

CH	311, 312 Organic Chemistry	8 semester hours	___ ___
CH	324 Analytical Chemistry	4 semester hours	___
CH	430 Physical Chemistry	5 semester hours	___

Select **one** of the following:

CH	314 Polymer Science	4 semester hours	___
CH	409 Biochemistry	3 semester hours	___
TOTAL PROFESSIONAL HOURS: 18-23 semester hours			

TOTAL HOURS FOR GRADUATION 124-128 semester hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

Bachelor of Science in Education - Secondary Education: General Science

Biology or Earth and Space Science Concentration

MAJOR CODE: 13.1205J

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** (See page 24).

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__ or**	**6 sem hrs.__ __**
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher	3 sem. hrs.___	
BIO 101 Introduction to Biology I **or**		
BIO 103 Principles of Biology I	4 sem. hrs.___	
BIO 102 Introduction to Biology II **or**		
BIO 104 Principles of Biology II	4 sem. hrs. ___	
	Area III Total:	11 sem. hrs.

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. __	3 sem hrs. __
	3 sem. hrs. __	
History *	**3 sem. hrs.__ or**	**6 sem hrs.__ __**
(Do not exceed Area IV total.)	Area IV Total:	12 sem. hrs.

TOTAL GENERAL STUDIES CURRICULUM CORE HOURS: 41 semester hours

***Students must complete a 6 semester hour sequence either in literature or history.**

****General Psychology is recommended because it is a prerequisite to PS 334.**

AREA V. MAJOR PRE-REQUISITE COURSES (PRE-PROFESSIONAL)

*Pre-calculus Trigonometry
Chemistry I 4 semester hours
Chemistry II 4 semester hours
General Physics I or General Physics I (Calculus based) 4 semester hours
General Physics II or General Physics II (Calculus based) 4 semester hours
Health and Physical Education 3 semester hours
Elective 0-4 semester hours

*If Pre-calculus algebra (3 semester hours) is completed to satisfy the Area III Mathematics requirement, the student should complete pre-calculus trigonometry (3 semester hours) in addition to pre-calculus algebra. Completion of pre-calculus algebra and trigonometry (4 semester hours) will satisfy both the Area III Mathematics requirement and the Area V requirement for trigonometry.

TOTAL PRE-PROFESSIONAL COURSES HOURS: 19-23 semester hours

TOTAL GENERAL CORE AND PRE-PROFESSIONAL HOURS: 60-64 Semester hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300	Foundations of Education	3 semester hours ___
ED 305	Computers and Media for Teachers	3 semester hours ___
SC 331	Issues in Secondary Education	3 semester hours ___
SC 333	Teaching Writing and Reading in the Content Areas	3 semester hours ___
ED 361	Measurement and Management	3 semester hours ___
SC 431	Teaching in Middle School/High School (Capstone course)	3 semester hours ___
SC 486	Internship in High School Education	9 semester hours ___ ___ ___
PS 334	Adolescent Psychology	3 semester hours ___
SE 301	Introduction to Exceptional Learners	3 semester hours ___

TOTAL PROFESSIONAL EDUCATION HOURS: 33 semester hours

SC 333, ED 361, and SC 431 cannot be taken concurrently without prior approval.

Courses underlined require admission to the Teacher Education program.

Take 12 hours each in Biology, Chemistry, Earth and Space Science and 8 hours in Physics with 4 hours in Astronomy. Earn a concentration in either Biology or Earth and Space Science by taking a total of 24 semester hours in that one area.

BIOLOGY

BI 301	Cell Structure and Functions	4 semester hours ___

Concentration in Biology requires the following:

BI 302	Genetics	4 semester hours ___
BI 303	General Ecology	4 semester hours ___
	Biology Elective	4 semester hours ___

CHEMISTRY

CH 324	Analytical Chemistry	4 semester hours ___

EARTH SPACE AND SCIENCE

	Astronomy or GS 300 Introduction to Astronomy	4 semester hours ___
GS 301	Atmospheric Science	4 semester hours ___
	GS 302 Earth Science **or**	
	GS 321 Environmental Studies	4 semester hours ___

Concentration in Earth and Space Science requires the following:

GS 330	Environmental Chemistry	3 semester hours ___
BI 303	General Ecology	4 semester hours ___
	BI 321 Conservation Biology **or**	
BI 311	Biodiversity of North Alabama	3-4 semester hours ___

PHYSICS

	Physics elective	4 semester hours ___

If Physics I and II are taken in lieu of General Physics I & II (Calculus based), 4 additional semester hours of Earth and Space Science courses must be completed.

TOTAL PROFESSIONAL HOURS: 58-60 semester hours

TOTAL HOURS FOR GRADUATION 124-128 semester hours

A second major is not required.

Bachelor of Science in Education - Secondary Education: General Science

Chemistry or Physics Concentration

MAJOR CODE: 13.1399

1. APPLICABLE GENERAL UNIVERSITY REQUIREMENTS (See page 24).

2. GENERAL STUDIES CURRICULUM CORE:

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__ or 6 sem hrs.__ __**	
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher	3 sem. hrs.___	
BIO 101 Introduction to Biology I or BIO 103 Principles of Biology I	4 sem. hrs.___	
BIO 102 Introduction to Biology II or BIO 104 Principles of Biology II	4 sem. hrs. ___	
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology** or sociology.)	3 sem. hrs. __	3 sem hrs.__
	3 sem. hrs. __	
History *	**3 sem. hrs.__ or 6 sem hrs.__ __**	
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

TOTAL GENERAL STUDIES CURRICULUM CORE HOURS: 41 semester hours

***Students must complete a 6 semester hour sequence either in literature or history.**

****General Psychology is recommended because it is a prerequisite to PS 334.**

AREA V. **MAJOR PRE-REQUISITE COURSES (PRE-PROFESSIONAL)**

*Pre-calculus Trigonometry
Chemistry I 4 semester hours
Chemistry II 4 semester hours
General Physics I or
General Physics I (Calculus based) 4 semester hours
General Physics II
or General Physics II (Calculus based) 4 semester hours
Health and Physical Education 3 semester hours
Elective 0-4 semester hours

*If Pre-calculus algebra (3 sem. hrs.) is completed to satisfy the Area III Math requirement, the student should complete pre-calculus trigonometry (3 sem. hrs.) in addition to pre-calculus algebra. Completion of pre-calculus algebra and trigonometry (4 sem. hrs.) will satisfy both the Area III Math requirement and the Area V requirement for trigonometry.

TOTAL PRE-PROFESSIONAL COURSES HOURS: 19-23 semester hours

TOTAL GENERAL CORE AND PRE-PROFESSIONAL HOURS: 60-64 Semester hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	3 semester hours	___
ED 305 Computers and Media for Teachers	3 semester hours	___
SC 331 Issues in Secondary Education	3 semester hours	___
SC 333 Teaching Writing and Reading in the Content Areas	3 semester hours	___
ED 361 Measurement and Management	3 semester hours	___
SC 431 Teaching in Middle School/High School (Capstone course)	3 semester hours	___
SC 486 Internship in High School Education	9 semester hours	___ ___ ___
PS 334 Adolescent Psychology	3 semester hours	___
SE 301 Introduction to Exceptional Learners	3 semester hours	___
TOTAL PROFESSIONAL EDUCATION HOURS:	**33 semester hours**	

4. **PROFESSIONAL COURSES:**

BIOLOGY

BI 301 Cell Structure and Function or BI 302 Genetics or BI 303 General Ecology 4 semester hours ___

CHEMISTRY

CH 324 Analytical Chemistry	4 semester hours	___
Concentration in Chemistry requires the following:		
CH 311	4 semester hours	___
CH 312	4 semester hours	___
Chemistry Elective	4 semester hours	___

EARTH SPACE AND SCIENCE

Astronomy or GS 300 Introduction to Astronomy	4 semester hours	___
GS 301 Atmospheric Science	4 semester hours	___
GS 302 Earth Science or		
GS 321 Environmental Studies	4 semester hours	___

PHYSICS

Concentration in physics requires the following:		
PY 303 Modern Physics	4 semester hours	___
Physics Electives	12 semester hours	___
TOTAL PROFESSIONAL HOURS:	**60 semester hours**	

TOTAL HOURS FOR GRADUATION: 124-128 semester hours

A second major is not required.

For the student obtaining high school certification who wishes a middle school endorsement in comprehensive science, the following courses are required:

EL 413 Teaching Reading in the Intermediate Grades	3 semester hours
ED 420 Teaching Science	3 semester hours
PS 332 Child Psychology	3 semester hours
Faculty advisor approved courses from the State Department of Education approved program. Courses must be selected from these areas: Physics, Earth & Space Science, Biology, Chemistry ..	27 semester hours
TOTAL	**36 SEMESTER HOURS**

NOTE: IF THE FOURTEEN-WEEK INTERNSHIP DID NOT INCLUDE AT LEAST SEVEN WEEKS IN GRADES 7-8, AN ADDITIONAL SEVEN WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

Bachelor of Science in Education - Secondary Education: History Major

MAJOR CODE: 13.1205D

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** (See page 24).

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature	3 sem. hrs. __	3 sem. hrs. ___
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (May take finite algebra)	3 sem. hrs.___	
Natural sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs. ___
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology* or sociology.)	3 sem. hrs. __	3 sem hrs. __
HIS 101 Western Civilization I	3 sem hrs. __	
HIS 102 Western Civilization II	3 sem. hrs. __	
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

***General Psychology is recommended because it is a prerequisite to PS 334.**

AREA V. **MAJOR PRE-REQUISITE COURSES (PRE-PROFESSIONAL):**

HIS 201 U.S. History I	3 sem. hrs.	___
HIS 202 U.S. History II	3 sem. hrs.	___
History Electives	3-6 sem. hrs.	___ ___
Health and physical education	3 sem. hrs	___
Electives	8-11 sem. hrs.	___ ___ ___ ___

TOTAL PRE-PROFESSIONAL HOURS: 19-23 semester hours

TOTAL GENERAL CORE AND PRE-PROFESSIONAL HOURS: 60-64 Semester hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	3 semester hours	___
ED 305 Computers and Media for Teachers	3 semester hours	___
SC 331 Issues in Secondary Education	3 semester hours	___
SC 333 Teaching Writing and Reading in the Content Areas	3 semester hours	___
ED 361 Measurement and Management	3 semester hours	___
SC 431 Teaching in Middle School/High School (Capstone course)	3 semester hours	___
SC 486 Internship in High School Education	9 semester hours	___ ___ ___
PS 334 Adolescent Psychology	3 semester hours	___
SE 301 Introduction to Exceptional Learners	3 semester hours	___

TOTAL PROFESSIONAL EDUCATION COURSE HOURS: 33 semester hours

Courses underlined require admission to the Teacher Education program.
SC 331, ED 361 and SC 431 cannot be taken concurrently without prior approval.

4. **PROFESSIONAL COURSES**

HY 300 Historiography	3 semester hours	___
HY 302 Alabama History or HY 303 The South in United States History	3 semester hours	___
Choose **three** of the following	9 semester hours	___ ___ ___
HY 304 Colonial/Revolutionary America (3 semester hours)		
HY 305 19th Century America (3 semester hours)		
HY 306 20th Century America (3 semester hours)		
HY 309 American Civil War and Reconstruction (3 semester hours)		
Choose **one** of the following:	3 semester hours	___
HY 334 Middle East (3 semester hours)		
HY 342 Modern Russia		
HY 414 Modern Africa (3 semester hours)		

TOTAL PROFESSIONAL HOURS 18 semester hours

A second major is required. The student must satisfy any additional General Education and/or Professional Education requirements inherent to the second major which are not stated above.

For the student obtaining high school certification who wishes a middle school endorsement in history, the following courses are required:

EL 413 Teaching Reading in the Intermediate Grades	3 semester hours
ED 423 Teaching Social Studies	3 semester hours
PS 332 Child Psychology	3 semester hours
Advisor approved courses from State Department of Education approved program.	27 semester hours
TOTAL	**36 SEMESTER HOURS**

NOTE: IF THE FOURTEEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL SEVEN-WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

Bachelor of Science in Education - Secondary Education: Language Arts Major

MAJOR CODE: 13.1205E

1. APPLICABLE GENERAL UNIVERSITY REQUIREMENTS (See page 24).

2. GENERAL STUDIES CURRICULUM CORE:

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

ENG 261 English Literature I	3 sem. hrs. __	
ENG 262 English Literature II	3 sem. hrs. __	
SPH 106 Fundamentals of Speech Communication or SPH 107 Fundamentals of Public Speaking	3 sem. hrs. __	
THR120 Theatre Appreciation or THR 126 Introduction to Theatre	3 sem. hrs. __	
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (May take finite algebra)	3 sem. hrs.___	
Natural sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs. ___
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology* or sociology.)	3 sem. hrs. __	3 sem hrs. __
	3 sem. hrs. __	
History	3 sem. hrs. __	
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

***General Psychology is recommended because it is a prerequisite to PS 334.**

AREA V. MAJOR PRE-REQUISITE COURSES (PRE-PROFESSIONAL):

ENG 251 American Literature I	3 sem. hrs. .. __
ENG 252 American Literature II	3 sem. hrs. .. __
ENG 271 World Literature I	3 sem. hrs. .. __
ENG 272 World Literature II	3 sem. hrs. .. __
Health and P.E.	3 sem. hrs. .. __
English electives	4-8 sem. hrs. __ __ __
TOTAL MAJOR PRE-REQUISITE COURSE HOURS:	**19-23 semester hours**

TOTAL GENERAL CORE AND PRE-REQUISITE COURSE HOURS: 60-64 Semester hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300	Foundations of Education	3 semester hours ___
ED 305	Computers and Media for Teachers	3 semester hours ___
SC 331	Issues in Secondary Education	3 semester hours ___
SC 333	Teaching Writing and Reading in the Content Areas	3 semester hours ___
ED 361	Measurement and Management	3 semester hours ___
SC 431	Teaching in Middle School/High School (Capstone Course)	3 semester hours ___
SC 486	Internship in High School Education	9 semester hours ___ ___ ___
PS 334	Adolescent Psychology	3 semester hours ___
SE 301	Introduction to Exceptional Learners	3 semester hours ___
TOTAL PROFESSIONAL EDUCATION HOURS:		**33 semester hours**

Courses underlined require admission to the Teacher Education program.
SC 333, ED 361, and SC 431 cannot be taken concurrently without prior approval.

4. **PROFESSIONAL COURSES:**

EH 303	Journalism	3 semester hours ___
EH 311	Drama Production	3 semester hours ___
EH 312	Dramatic Literature	3 semester hours ___
EH 320	Grammar for Teachers	3 semester hours ___
EH 401	Speech: Conflict Management	3 semester hours ___
EH 414	History of the English Language	3 semester hours ___
EH 425	Shakespeare	3 semester hours ___
EH 431	Poetry and Poetics	3 semester hours ___
EH 433	Fiction	3 semester hours ___
Electives (Select at least one course from the list below:)		3 semester hours ___

EH 304 Southern Literature
EH 307 Major Authors I
EH 308 Major Authors II
EH 314 Nineteenth Century Studies
EH 316 American Masterpieces
EH 325 Myth: Ritual and Culture
EH 413 Composition for Teachers
EH 416 Interpreting the Text
EH 430 Literature: The Healing Art
EH 440 African-American Studies
EH 450 Renaissance Literature 1550-1680
EH 451 Restoration and the Eighteenth Century
EH 452 Chaucer and Medieval Literature

TOTAL PROFESSIONAL HOURS: 60 semester hours

TOTAL HOURS FOR GRADUATION 124-128 semester hours

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in language arts, the following courses are required:

ED 321 Teaching Language Arts	3 semester hours
EL 413 Teaching Reading in the Intermediate Grades	3 semester hours
PS 332 Child Psychology	3 semester hours
Advisor approved courses from the State Department of Education approved program. Courses must be selected from each of these areas: English composition and literature, drama, journalism, speech	27 semester hours
TOTAL	36 semester hours

NOTE: IF THE FOURTEEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL SEVEN-WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

Bachelor of Science in Education - Secondary Education: Mathematics
MAJOR CODE: 13.1205F

1. APPLICABLE GENERAL UNIVERSITY REQUIREMENTS (See page 24).

2. GENERAL STUDIES CURRICULUM CORE:

Area I. (6 semester hours)
Written Composition 3 sem. hrs. __ 3 sem hrs. __

Area I Total: 6 sem. hrs.

Area II. Humanities and Fine Arts (12 semester hours)
The Arts (Art, music, theater, dance) 3 sem. hrs. __
Speech (SPH 106 or SPH 107) 3 sem. hrs. __
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance). 3 sem. hrs. __
Literature* **3 sem. hrs.__ or 6 sem hrs.__ __**

(Do not exceed Area II total.) **Area II Total: 12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)
Precalculus algebra or higher 3 sem. hrs.___
At least 8 semester hours in the natural sciences which must include laboratory experiences. The natural science disciplines include, but are not limited to astronomy, biology, chemistry, geology, and physics. **The mathematics major is encouraged to take:**
Calculus-based physics I. 4 sem. hrs. ___
Calculus-based physics II. 4 sem. hrs. ___

Area III Total: 11 sem. hrs.

Area IV. History, Social and Behavioral Sciences (12 semester hours)
Social and Behavioral Sciences (Could include, but not limited to, anthropology, economics, geography, political science, psychology** or sociology.) 3 sem. hrs. __ 3 sem hrs. __
3 sem. hrs. __
History * **3 sem. hrs.__ or 6 sem hrs.__ __**

(Do not exceed Area IV total.) **Area IV Total: 12 sem. hrs.**

TOTAL GENERAL STUDIES CURRICULUM CORE HOURS: 41 semester hours

***Students must complete a 6 semester hour sequence either in literature or history.**
****General Psychology is recommended because it is the prerequisite to PS 334.**

AREA V. **MAJOR PRE-REQUISITE COURSES (PRE-PROFESSIONAL):**

Middle and high school education majors should select courses appropriate to their majors. Refer to the Program of Study sheets for specific course requirements. Students planning to major in mathematics at Athens State University are required to complete the following courses as general major pre-requisite courses:

Pre-calculus Trigonometry	3 semester hours	___
MTH125 Calculus I	3 semester hours	___
MTH126 Calculus II	3 semester hours	___
MTH227 Calculus III	3 semester hours	___
MTH228 Calculus IV	3 semester hours	___
Computer programming language (C++ Program preferred)	3 semester hours	___
Health and Physical Education	3 semester hours	___
TOTAL PRE-PROFESSIONAL COURSES:	**19-23 semester hours**	
TOTAL GENERAL CORE AND PRE-PROFESSIONAL COURSE HOURS:	**..60-64 Semester hours**	

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	3 semester hours	___
ED 305 Computers and Media for Teachers	3 semester hours	___
SC 331 Issues in Secondary Education	3 semester hours	___
SC 333 Teaching Writing and Reading in the Content Areas	3 semester hours	___
ED 361 Measurement and Management	3 semester hours	___
SC 431 Teaching in Middle School/High School (Capstone course)	3 semester hours	___
SC 486 Internship in High School Education	9 semester hours	___ ___ ___
PS 334 Adolescent Psychology	3 semester hours	___
SE 301 Introduction to Exceptional Learners	3 semester hours	___
TOTAL PROFESSIONAL EDUCATION HOURS:	**33 semester hours**	

Courses underlined require admission to the Teacher Education program.
SC 333, ED 361, and SC 431 cannot be taken concurrently without prior approval.

4. **PROFESSIONAL COURSES:**

Calculus Sequence

MA 330 Advanced Mathematical Software	3 semester hours	___
MA 441 Special Topics	3 semester hours	___
Linear Algebra (MA 310)	3 semester hours	___
MA 314 College Geometry	3 semester hours	___
Five mathematics electives (3 semester hours each) from the following:	15 semester hours	___ ___ ___ ___ ___

MA 308 Discrete Mathematics	MA 423 Numerical Analysis
MA 316 Vector Analysis	MA 428 Partial Differential Equations
MA 320 Modern Algebra	MA 430,431 Theory of Statistics and Probability I, II
MA 401 Complex Analysis	MA 450,451 Advanced Calculus I, II
MA 421 Differential Equations	MA 452 Real Analysis

TOTAL PROFESSIONAL COURSE HOURS **27 semester hours**

At least 12 semester hours of the required mathematics courses above MA 306 must be taken at Athens State University. All B.S.Ed. mathematics majors must maintain a 2.75 GPA in mathematics courses taken at Athens State University.

5. **Electives:** Upper-level (300-400) course work 4-8 semester hours ___ ___ ___
TOTAL HOURS FOR GRADUATION **124-128 semester hours**

6. **COMPREHENSIVE EXIT EXAM**

Each B.S.Ed. mathematics major must earn a passing score on the mathematics comprehensive exit exam. Developed by the Athens State University Department of Mathematics, this exam is administered by the School of Education. Before a Class B Teaching Certificate is granted, the State Department of Education requires all students completing a B.S.Ed. mathematics major to take and pass the exam.

7. A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in **mathematics**, the following courses are required:

EL 424 Teaching Mathematics in Intermediate Grades	3 semester hours
EL 413 Teaching Reading in the Intermediate Grades	3 semester hours
PS 332 Child Psychology	3 semester hours
Advisor approved courses from the State Department of Education approved program	27 semester hours
TOTAL	39 semester hours

NOTE: IF THE FOURTEEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL SEVEN-WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

Bachelor of Science in Education - Secondary Education: Social Science
MAJOR CODE: 13.1205H

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** (See page 24).

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __		
Speech (SPH 106 or SPH 107)	3 sem. hrs. __		
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __		
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__**	__
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**	

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (May take finite algebra)	3 sem. hrs.___	
Natural sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs. ___
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

GEO 100 World Regional Geography	3 sem. hrs. ___	
HIS 101 History of Western Civilization I	3 sem. hrs. ___	
HIS 102 History of Western Civilization II	3 sem. hrs. ___	
PSY 200 General Psychology	3 sem. hrs. ___	
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL):

SOC 200 Introduction to Sociology 3 sem. hrs. ___
HIS 201 U.S. History I 3 sem. hrs. ___
HIS 202 U.S. History II 3 sem. hrs. ___
POL 211 American National Government 3 sem. hrs. ___
Health and Physical Education 3 sem. hrs. ___
Alabama History 3 sem. hrs. ___
Macro and Micro Economics 6 sem. hrs. ___ ___

TOTAL MAJOR PREREQUISITE COURSE HOURS: 19-23 Semester Hours

TOTAL GENERAL CORE AND MAJOR PREREQUISITE COURSE HOURS: 60-64 Semester Hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	3 semester hours	___
ED 305 Computers and Media for Teachers	3 semester hours	___
SC 331 Issues in Secondary Education	3 semester hours	___
SC 333 Teaching Writing and Reading in the Content Areas	3 semester hours	___
ED 361 Measurement and Management	3 semester hours	___
SC 431 Teaching in Middle School/High School (Capstone course)	3 semester hours	___
SC 486 Internship in High School Education	9 semester hours	___ ___ ___
PS 334 Adolescent Psychology	3 semester hours	___
SE 301 Introduction to Exceptional Learners	3 semester hours	___
TOTAL PROFESSIONAL EDUCATION COURSE HOURS:	**33 semester hours**	

Courses underlined require admission to the Teacher Education program.
SC 333, ED 361, and SC 431 cannot be taken concurrently without prior approval.

4. **PROFESSIONAL COURSES:**

PO 303 Comparative State and Local Government or PO 305 Alabama Govn. ...	3 semester hours	___
HY 308 America and the World	3 semester hours	___
PO 351 American Public Policy **or**		
SO 312 Majority/Minority Group Relations	3 semester hours	___
Choose two of the following:	6 semester hours	___ ___
HY 304 Colonial and Revolutionary America		
HY 305 Nineteenth Century America		
HY 306 Twentieth Century America		
HY 309 American Civil War and Reconstruction		
Choose One Non-American History Course from the following:	3 semester hours	___
HY 333 Middle East		
HY 342 Modern Russia		
HY 414 Modern Africa or European history.		
GO 309 North America and Europe	3 semester hours	
GO 310 South America, Africa and Asia	3 semester hours	
EC 320 International Commerce	3 semester hours	
PO 453 International Relations	3 semester hours	
TOTAL PROFESSIONAL COURSE HOURS	**31 semester hours**	

TOTAL HOURS FOR GRADUATION 124-128 SEMESTER HOURS

A second major is **not** required.

For the student obtaining high school certification who wishes a middle school endorsement in **social science,** the following courses are required:

EL 413 Teaching Reading in the Intermediate Grades	3 semester hours
ED 423 Teaching Social Studies	3 semester hours
PS 332 Child Psychology	3 semester hours
Advisor approved courses from the State Department of Education approved program. Course must be selected from each of these areas: Economics, Geography, History, Political Science, Sociology or Anthropology	27 semester hours
TOTAL	36 semester hours

NOTE: IF THE FOURTEEN-WEEK INTERNSHIP WAS NOT COMPLETED IN GRADES 7-8, AN ADDITIONAL SEVEN-WEEK INTERNSHIP MUST BE COMPLETED IN THOSE GRADES.

SECONDARY EDUCATION RECOMMENDED COURSE SEQUENCE

YEAR ONE

First Semester (Fall)

ED 300	Foundations of Education	3 semester hours	___
ED 305	Computers & Media for Teachers	3 semester hours	___
PS 334	Adolescent Psychology	3 semester hours	___
Courses in major field		9 semester hours	___ ___ ___
		Total	**18 sem. hrs.**

Second Semester (Spring)

SC 331	Issues in Secondary Education	3 semester hours	___
SE 301	Introduction to Exceptional Learner	3 semester hours	___
Courses in major field		up to 12 semester hours	___ ___ ___ ___
		Total	**18 sem. hrs.**

YEAR TWO

Third Semester (Fall)

*SC 333	Teaching Reading and Writing in Content Area	3 semester hours	___
*SC 431	Teaching in Middle/High School (Must be taken one semester prior to intership)	3 semester hours	___
Courses in major field		up to 12 semester hours	___ ___ ___ ___
		Total	**15 sem. hrs.**

Fourth Semester (Spring)

*ED 361	Measurement and Management	3 semester hours	___
*SC 486	Internship in High School	9 semester hours	___ ___ ___
		Total	**12 sem. hrs.**
		Grand Total	**63 sem.**

***Admission to the Teacher Education Program is required for enrollment in SC 333, ED 361 and SC 431. Written appeal to the School Dean, prior to registration, is required for concurrent enrollment in SC 333, ED 361 and SC 431.**

SPECIAL EDUCATION (Collaborative Teacher)

The Special Education Program at Athens State University is designed to prepare professionals to work with students across various age levels (K-6 and 6-12) who have disabilities. The program provides pre-service training in preparation for the class "B" certificate.

Bachelor of Science in Education - Special Education (Collaborative Teacher) (K-6)

MAJOR CODE: 13.1001 A

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** **(See page 24).**

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (May take finite algebra)	3 sem. hrs.___	
Natural sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs. ___
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to anthropology, economics, geography, political science, psychology or sociology.)	3 sem. hrs. ___	3 sem. hrs. ___
	3 sem. hrs. ___	
History*	**3 sem. hrs. or 6 sem. hrs.___ ___**	
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

***Student must complete a 6 semester hour sequence either in literature or history.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL):

Special education majors select general studies courses from Areas II-IV above. Recommended are philosophy, sociology and psychology. 12 sem. hrs. ___ ___ ___ ___

Health and physical education 3 sem. hrs. ___

Electives 4-8sem. hrs. ___ ___ ___

TOTAL MAJOR PREREQUISITE COURSES: 19-23 Semester Hours

TOTAL GENERAL CORE AND MAJOR PREREQUISITE COURSE HOURS: 60-64 Semester Hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	3 semester hours	___
ED 305 Computers and Media for Teachers	3 semester hours	___
ED 323 Teaching Reading in the Primary Grades	3 semester hours	___
ED 324 Teaching Math in the Primary Grades	3 semester hours	___
EL 413 Teaching Reading in the Intermediate Grades	3 semester hours	___
SE 476 Internship in Collaborative Education (K-6)	9 semester hours	___ ___ ___

**Human Growth and Development or PS 332 Child Psychology (3 semester hours)

SE 301 Introduction to Exceptional Learners	3 semester hours	___
TOTAL PROFESSIONAL EDUCATION COURSE HOURS:	**27 semester hours**	

Courses underlined require admission to the Teacher Education program.

****Human Growth and Development or PS 332 may be taken as an elective in Area V.**

4. **PROFESSIONAL COURSES:**

ED 321 Teaching Language Arts	3 semester hours	___
SE 315 Introduction to Cognitive and Health Disabilities	3 semester hours	___
SE 325 Introduction to Learning and Emotional Disabilties	3 semester hours	___
SE 335 Curriculum Development and Adaptions	3 semester hours	___
SE 345 Assessment I	3 semester hours	___
SE 355 Alternative Instructional Strategies	3 semester hours	___
SE 425 Conferencing and Collaborative Techniques	3 semester hours	___
SE 435 Strategies for Individuals with Severe Disabilities	3 semester hours	___
SE 445 Assessment II	3 semester hours	___
SE 455 Language and Developmental Strategies for Young Children	3 semester hours	___
SE 465 IEPs and Other Legal Issues	3 semester hours	___
SE 495 Classroom Management and Discipline	3 semester hours	___
TOTAL PROFESSIONAL COURSE HOURS:	**36 semester hours**	

Courses underlined require admission to the Teacher Education Program.

TOTAL HOURS FOR GRADUATION 124-128 semester hours

A second major is **not** required.

Bachelor of Science in Education - Special Education (Collaborative Teacher) (6-12)
MAJOR CODE: 13.1001B

1. **APPLICABLE GENERAL UNIVERSITY REQUIREMENTS** (See page 24).

2. **GENERAL STUDIES CURRICULUM CORE:**

Area I. (6 semester hours)

Written Composition	3 sem. hrs. __	3 sem hrs. __
	Area I Total:	**6 sem. hrs.**

Area II. Humanities and Fine Arts (12 semester hours)

The Arts (Art, music, theater, dance)	3 sem. hrs. __	
Speech (SPH 106 or SPH 107)	3 sem. hrs. __	
Humanities (Could include, but not limited to, philosophy, religion, speech, foreign languages, art, music, theater, dance).	3 sem. hrs. __	
Literature*	**3 sem. hrs.__**	**or 6 sem hrs.__ __**
(Do not exceed Area II total.)	**Area II Total:**	**12 sem. hrs.**

Area III. Natural Sciences and Mathematics (11 semester hours)

Precalculus algebra or higher (May take finite algebra)	3 sem. hrs.___	
Natural sciences (must include laboratory experiences) (Could include, but not limited to astronomy, biology, chemistry, geology, and physics.)	4 sem. hrs.___	4 sem. hrs. ___
	Area III Total:	**11 sem. hrs.**

Area IV. History, Social and Behavioral Sciences (12 semester hours)

Social and Behavioral Sciences (Could include, but not limited to anthropology, economics, geography, political science, psychology or sociology.)	3 sem. hrs. ___	3 sem. hrs. ___
	3 sem. hrs. ___	
History*	**3 sem. hrs. or 6 sem. hrs.___**	**___**
(Do not exceed Area IV total.)	**Area IV Total:**	**12 sem. hrs.**

***Student must complete a 6 semester hour sequence either in literature or history.**

TOTAL GENERAL STUDIES CURRICULUM CORE: 41 SEMESTER HOURS

AREA V. MAJOR PREREQUISITE COURSES (PRE-PROFESSIONAL):

Special education majors should select 12 semester hours from Areas II-1V above. general studies courses. Recommended are philosophy, sociology, psychology. 12 semester hours ___ ___ ___ ___

Health and physical education 3 semester hours ___

Electives 4-7 semester hours ___ ___ ___

TOTAL MAJOR PREREQUISITE COURSE HOURS: 19-23 semester hours

TOTAL GENERAL CORE AND MAJOR PREREQUISITE COURSE HOURS: 60-64 Semester hours

3. **PROFESSIONAL EDUCATION REQUIREMENTS:**

ED 300 Foundations of Education	3 semester hours	___
ED 305 Computers and Media for Teachers	3 semester hours	___
ED 323 Teaching Reading in the Primary Grades	3 semester hours	___
EL 413 Teaching Reading in the Intermediate Grades	3 semester hours	___
EL 424 Teaching Math in the Intermediate Grades	3 semester hours	___
SE 478 Internship in Collaborative Education (6-12)	9 semester hours	___ ___ ___
SE 301 Introduction to Exceptional Learners	3 semester hours	___

**Human Growth and Development or PS 334 Adolescent Psychology (3 semester hours)

TOTAL PROFESSIONAL EDUCATION COURSE HOURS: 27 semester hours

****Human Growth and Development or PS 332 may be taken as an elective in Area V.**
Courses underlined require admission to the Teacher Education program.

4. **PROFESSIONAL COURSES:**

SC 333 Teaching Writing and Reading in the Content Areas	3 semester hours	___
SE 315 Introduction to Cognitive and Health Disabilities	3 semester hours	___
SE 325 Introduction to Learning and Emotional Disabilties	3 semester hours	___
SE 335 Curriculum Development and Adaptions	3 semester hours	___
SE 345 Assessment I	3 semester hours	___
SE 355 Alternative Instructional Strategies	3 semester hours	___
SE 415 Transition Planning and Learning Strategies for Adolescents	3 semester hours	___
SE 425 Conferencing and Collaborative Techniques	3 semester hours	___
SE 435 Strategies for Individuals with Severe Disabilities	3 semester hours	___
SE 445 Assessment II	3 semester hours	___
SE 465 IEPs and Other Legal Issues	3 semester hours	___
SE 495 Classroom Management and Discipline	3 semester hours	___
TOTAL HOURS IN MAJOR	**36 semester hours**	

Courses underlined require admission to the Teacher Education Program.

A second major is **not** required.

SPECIAL EDUCATION (Collaborative Teacher) SUGGESTED COURSE SEQUENCE

YEAR ONE

First Semester (Fall)

ED 300	Foundations of Education	3 semester hours	___
ED 323	Teaching Reading - Primary Grades	3 semester hours	___
ED 324	Teaching Math - Primary Grades (K-6 or		
EL 424	Teaching Math - Intermediate Grades (6-12)	3 semester hours	___
SE 301	Introduction to Exceptional Learners	3 semester hours	___
SE 315	Introduction to Cognitive and Health Impairments	3 semester hours	___

Second Semester (Spring)

ED 305	Computers and Media	3 semester hours	___
SE 325	Introduction to Learners and Emotional Disabilities	3 semester hours	___
SE 335	Curriculum Development and Adaptation	3 semester hours	___
SE 345	Assessment I	3 semester hours	___
SE 435	Strat. Ind. w/Severe Disabilities	3 semester hours	___

Summer Term

EL 413	Teaching Reading - Intermediate Grades	3 semester hours	___
PS 332	Child Psychology (LK-6 or PS 334 Adolescent Psy. (6-12)	3 semester hours	___
(If Human Growth and Development not taken.) (Norm-Referenced Tests)			
SE 495	Classroom Management and Dis.	3 semester hours	___

YEAR TWO

Third Semester (Fall)

ED 321	(K-6) or SC 333 (6-12)	3 semester hours	___
SE 355	Alt. Instr. Stretegies	3 semester hours	___
SE 415	Transition Planning and Learning Strategies for Adolescents	3 semester hours	___
SE 445	Assessment II**(Advanced)	3 semester hours	___
SE 455	Language and Development Strategies for Young Children	3 semester hours	___
SE 465	IEPs and Legal Issues	3 semester hours	___

Fourth Semester (Spring)

SE 476 or SE 478	Internship	3 semester hours	___
**SE 425	Conferencing and Collaborative Techniques	4 semester hours	___

**Taken at night during internship with one class meeting per week.

COURSE DESCRIPTIONS

Accounting (AC) Courses

AC 300 **Fundamentals of Accounting. 3 Semester Hours.**
A survey of accounting concepts and the use of accounting information in financial and managerial decisions.

AC 303 **Management Decision Support Systems. 3 Semester Hours.** (Lab fee.) (Also listed as MG 303.)
Prerequisite: Windows Applications course (CIS 146). An analysis of the nature of the decision making process and an examination of support systems. Instruction will emphasize an advanced application of spreadsheet and database management software.

AC 321 **Intermediate Accounting I. 3 Semester Hours.** (Lab fee.)
Prerequisite: Principles of Accounting. A survey of the financial reporting process, a detailed study of financial statements, and an analysis of generally accepted accounting principles.

AC 322 **Intermediate Accounting II. 3 Semester Hours.** (Lab fee.)
Prerequisite: AC 321. An in-depth study of accounting theory applicable to the major asset categories of a business entity.

AC 323 **Intermediate Accounting III. 3 Semester Hours** (Lab fee.)
Prerequisite: AC 322. A review of the application of accounting theory to liability and stockholders equity balance sheet categories, culminating with a study of special purpose financial statements.

AC 341 **Governmental Accounting. 3 Semester Hours.** (Lab fee.)
Prerequisite: Principles of Accounting. An introduction to fund and budgetary accounting for government and not-for-profit organizations in education, health care, and social welfare agencies.

AC 361 **Federal Tax Accounting. 3 Semester Hours.** (Lab fee.)
Prerequisite: Principles of Accounting. An overview of federal tax laws and regulations applicable to individuals and sole proprietors.

AC 371 **Managerial Accounting. 3 Semester Hours.** (Lab fee.)
Prerequisite: Principles of Accounting. An introduction to the preparation and interpretation of cost accounting data to be used by management in the twin entrepreneurial functions of planning and control. Job order, process, and standard cost systems will be studied in depth.

AC 401 **Auditing. 3 Semester Hours.** (Lab fee.)
Prerequisite: AC 322. Auditing theory and practice, with emphasis given to the function of the audit in the certification of financial statements by an independent auditor.

AC 425 **Accounting Information Systems. 3 Semester Hours.** (Lab fee.)
Prerequisite: AC 322 and AC 371. Fundamentals of information systems technology, techniques, and capabilities, particularly with respect to the use of accounting information in a computer environment.

AC 431 **Advanced Accounting. 3 Semester Hours.** (Lab fee.)
Prerequisite: AC 322. A study of advanced accounting concepts including partnerships, foreign currency transaction, international accounting, estates and trusts, bankruptcy, and related topics.

AC 441 **Special Topics in Accounting. 3 Semester Hours.** (Lab fee.) To be offered on occasion of student demand or need.

AC 442 **Fraud Examination. 3 Semester Hours.** (Lab fee.)
Prerequisite: AC 322 and AC 401. An advanced study of auditing theory and practice.

AC 460 **Directed Study/Research in Accounting. 3 Semester Hours.**
A course designed to allow students an opportunity to perform research/directed studies in accounting. Offered at the discretion of the professor with approval of the School Dean.

AC 461 **Federal Tax Accounting II. 3 Semester Hours.** (Lab fee.)
Prerequisite: AC 361. The application of the federal income tax law as it applies to partnerships and corporations, with emphasis on the differences which exist between financial and tax accounting.

AC 471 **Advanced Cost Accounting. 3 Semester Hours.** (Lab fee.)
Prerequisite: AC 371. Cost data analysis and accounting controls in planning and controlling operations and in making special decisions.

AC 481 **Financial Accounting Theory. 3 Semester Hours.** (Lab Fee.)
Prerequisite: AC 323. An intensive study of recent developments, research in literature in accounting theory promulgated by the various professionals and accounting associations and related financial organizations.

Art (AR) Courses

AR 301 **Painting. 3 Semester Hours.** (Lab fee.)
An introduction to basic oil painting theory and techniques and a study of the history of painting. Museum visits and critiques will be included.

AR 310 **Fine Arts Connection. 3 Semester Hours.** (Lab fee.) (Education or Art Majors Only.) (Former titles AR 309 and MU 451.)
An integrated fine arts course that assists students in acquiring the knowledge to use the visual arts, music, and creative movement in developmentally appropriate ways in regular classroom instruction.

AR 311 **Landscape Painting and Drawing. 3 Semester Hours.**
Prerequisite: AR 301 or equivalent. The environment as a subject for drawing and painting in a variety of media. Direct study from nature.

AR 312 **Figure Drawing. 3 Semester Hours.** (Lab fee.)
Emphasis upon the human figure.

AR 313 **Portrait Drawing and Painting. 3 Semester Hours.** (Lab fee.)
Students will use a variety of media to develop skills in portraiture.

AR 314 **Topics in Watercolor. 3 Semester Hours.**
Students will use transparent and opaque water color techniques and a variety of subject matter to become more proficient as painters.

AR 315 **Topics in Ceramics. 3 Semester Hours.** (Lab fee)
An introduction to basic ceramic techniques with emphasis on hand-constructed ceramics. The course will include a study of the history of ceramics from prehistory to modern times.

AR 317 **Ceramic Sculpture. 3 Semester Hours.** (Lab fee.)
An exploration of sculptural media, particularly clay and terra cotta.

AR 321 **Set Design. 3 Semester Hours.** (Lab fee.) (Also listed as EH 321.)
This course will cover the designing of a stage set from conception through mock-up, construction, and implementation. Set(s) will be designed for actual use. Material covered will be pertineot to productions ranging from children's plays to community and college theater. Course usually runs concurrently with drama production.

AR 330 **Topics in Photography. 3 Semester Hours.** (Lab fee.)
Students will need a SLR 35mm camera with adjustable/stop, shutter speed and focus and a working internal light meter. An exploration of black and white photography with emphasis upon creativity and darkroom activities. The course will include criticism and aesthetics.

AR 331 **Photography II. 3 Semester Hours.** (Lab fee.) (Note: This course requires the student to purchase supplies in addition to the lab fee.)
Prerequisite: AR 330 or photography experience and consent of instructor. Advanced theory and practice in primarily black and white photography.

AR 340 **Medical and Biological Visualization. 3 Semester Hours.** (Lab fee.) (Also listed as BI 340 and PE 340.)
This course helps students develop perceptual motor ability (the ability to deal with objects through visualization). Perceptual motor ability has long been an indicator of success in fields like dentistry, medicine, architecture, art and 3-D computerization. The course will teach the visualization of anatomical and biological structures, to survey the common components of graduate courses in medical and biological illustration for the purpose of preparing pre-health and/or art undergraduates to express thinking through diagrams, sculpture, illustrations and computer graphics.

AR 343 **Renaissance Art History. 3 Semester Hours.**
The history of art from the Early Renaissance through the first part of the 19th century including the Renaissance, Mannerism, Baroque, Neo Classicism, and 19th-Century Realism and Romanticism.

AR 401 **Advanced Figure Drawing. 3 Semester Hours.** (Lab fee.)
Prerequisite: AR 312. A continuation of Figure Drawing, building on the techniques learned in AR 312 to create a finished product.

AR 402 **Portfolio, Exhibitioo aod Art Researcb. 3 Semester Hours.**
Prerequisite: Graduating Senior. To familianze the students with the proper utilization of the art reference books, abstracts, monographs, and indices for the purpose of college writing and research in the content area of art. Students will compile a professional portfolio and hang their senior exhibition.

AR 404 **Art Studio io Photography. 3 Semester Hours.**
Prerequisite: Art major or minor or permission of instructor. This course is designed to enable the student to produce works in photography making use of personal innovations, carefully considered form, techniques, and materials. Skills in art analysis and criticism will be used regularly. Students will define their creative projects in a written statement. This statement will be discussed and possibly modified. A body of work will be created.

AR 406 **Art Studio in Graphics. 3 Semester Hours.**
Prerequisite: Art mojor or minor or permission of instructor. This course is designed to enable the student to produce works in graphic art making use of personal innovations, carefully considered form, techniques, and materials. Skills in art analysis and criticism will be used regularly. Students will define their creative projects in a writteo statement. This statement will be discussed and possibly modified. A body of work will be created.

AR 408 **Printmaking. 3 Semester Hours.**
Development of techniques in various print media.

AR 410 **Layout and Design. 3 Semester Hours.**
Concepts will be covered from visualizations through finished projects. Problems in composition in commercial as well as fine arts projects will be assigned. This course is designed to produce a portfolio of finisbed projects.

AR 418 **Art Studio. 3 Semester Hours.**
Prerequisite: Art mojor or minor or permission of instructor. Designed to enable the student to produce works in visual art making use of personal innovations, carefully considered form, techoiques, and materials. Skills in art analysis and criticism will be used regularly. This course involves a significant amount of criticism of historical and contemporary art works. Students will define their creative projects in a written statement. This statement will be discussed and possibly modified. A body of work will be created.

AR 420 **Art Studio. 3 Semester Hours.**
Prerequisite: Art mojor or minor or permission of instructor. Designed to enable the student to produce works in visual art making use of personal innovations, carefully considered form, techniques, and materials. Skills in art analysis and criticism will be used regularly. Students will define their creative projects in a written statement. This statement will be discussed and possibly modified. A body of work will be created.

AR 423 **History of Modern Art. 3 Semester Hours.**
The post-impressionist period through 1945.

AR 424 **Late Modern Art History. 3 Semester Hours.**
1945 to present.

AR 430 **Advanced Drawing and Design. 3 Semester Hours.**
Advanced concepts in drawing and composition.

AR 442 **Special Topics in Art. 2 Semester Hours.**
To be offered on occasion of student demand or need.

AR 450 **Internship in Art. 3 Semester Hours.**
An internship program in which the student will receive training with a commercial enterprise relating to his or her area of experience.

AR 460 **Special Workshop. 1 Semester Hour.**
Arts and Crafts.

AR 461 **Special Workshop. 2 Semester Hours.**
Arts and crafts.

BSAT Courses

ATC 301 **Problem Solving with Computers. 3 Semester Hours.** (Also listed as CIS 301.) (Lab Fee.)
This course is designed to strengthen the students grounding in common computer applications. Emphasis will be on the understanding of applications and how they use the associated technology. The course will be conducted through lecture, in-class computing laboratories, and out-of-class assigned problems and projects.

ATC 305 **Industrial Processes. 3 Semester Hours.** (Lab Fee.)
Today's industrial/business world is tough. Competition is heavy and consumers are knowledgeable. Survival in such an environment demands organizational commitment to improving quality and productivity. The first step to improvement is the solid industrial overview this Industrial Processes Course provides. Topics of discussion and review include: print reading, geometric dimensioning and tolerancing; process control and quality management; safety in the manufacturing environment; metallurgy and materials; machining and fabrication; welding principles and theory; adhesive bonding and procedures; manufacturing, electronic, and aerospace assembly; and chemical processes and control.

ATC 306 **Applied Mathematics. 3 Semester Hours** (Lab Fee.)
This mathematics survey course will include reviews of geometry, trigonometry and algebra with an introduction to basic principles of calculus in order to assure that all BSAT students have a nominal level of mathematics skills. Then, each BSAT option will include a specific course (three designations in total). All three of these mathematics options will be included in one course. Each course option will contain modules. Each module will be a project/hands-on learning of concepts. A typical module will last from 2 1/2 to 3 weeks and will be done by a participating group. At the end of the module, the group will present what they have learned and how they solved each problem.

ATC 320 **Organizational Communications and Leadership. 3 Semester Hours.** (Also listed as MG 320.) (Lab Fee.)
The purpose of this course is to enhance the student's ability to communicate effectively and efficiently in the workplace. Writing, listening, reading, and speaking are emphasized in assignments, exercises, and projects. Skills of leadership, group collaboration, and intercultural communication are stressed in assignments and demonstrated in projects.

ATC 375 **Organizational Behavior and Teambuilding. 3 Semester Hours.** (Also listed as MG/PS/PSA 375.) (Lab Fee.)
This course is designed to enhance class members' understanding of the causes and consequences of the behavior of people within the context of organizations, with emphasis on teamwork. To accomplish the learning goals for the course, varying instructional methodologies will be employed including lecture, and assigned readings from the text, journal articles, and the web. A significant amount of class time will be spent in experiential exercises.

ATC 401 **Logical Thinking. 3 Semester Hours.** (Also listed as PH/PS 401.)
Prerequisite: General Psychology. A course that encourages thinking skills and is divided into three domains. Skeptical thinking will be entertained first followed by critical thinking or informal logic, with formal logic being addressed last. Skeptical thinking will be taught using "Occam's razor," and informal logic will be studied by analyzing cognitive biases and cognitive fallacies. Formal logic will be learned through the use of categorical sentences, truth functions, and inductive and deductive reasoning.

ATE 306 **Interfacing Techniques. 4 Semester Hours.** (Also listed as IT 306.) (Lab Fee.)
Prerequisite: Microprocessor Fundamentals. This course is designed to have students become familiar with interfacing input and output devices to micro processor and computer interfacing systems. Students should already have some knowledge of microprocessor operation and fundamentals. Students will be involved in individual and team assignments in design, construction, and implementation of interfacing systems.

ATE 316 **Applied Digital Design. 4 Semester Hours.** (Also listed as IT 316.) (Lab Fee.)
Prerequisite: Introductory digital electronics. During the course, the tools of digital design will be developed, and then these tools will be used to investigate problems in digital design with computers and large-scale solutions to digital problems. The course will also cover the use of devices, such as programmable logic devices (PLD's), in digital problems and design.

ATE 401 **Applied Digital Communication. 4 Semester Hours.** (Also listed as IT 401.) (Lab Fee.)
Prerequisite: Introductory electronic courses. This course is designed to familiarize the student with the basic systems and concepts used in electronic communications systems. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and may introduce and employ some basic concepts of calculus.

ATE 406 **Applied Mathematics for Electronics. 4 Semester Hours.**
These mathematics courses will include a specific course (three designation in total). All three of these mathematics options will be included in one course. Each course option will contain modules. Each module will be a project/hands-on learning of concepts. A typical module will last from 2 1/2 to 3 weeks and will be done by a participating group. At the end of the module, the group will present what they have learned and how they solved each problem.

ATE 408/409 **Physics for Instrumentation and Electronics I, II. 4 Semester Hours.**
This two-semester course series is designed to familiarize the student with the basic physical laws and concepts we use to describe and shape the world around us. The stress in these courses is on critical thinking, problem-solving, and examples of applications related to industry, electronics, and instrumentation. The mathematical techniques used in the courses include algebra, geometry, and trigonometry, and may introduce and employ some basic concepts of calculus.

ATE 400 **Advanced Analog Instrumentation. 4 Semester Hours.** (Also listed as IT 400.) (Lab Fee.)
Prerequisite: IT 320 and PY 302. This course is designed to familiarize the student with theories and methods used in analyzing and understanding complex electronic systems. Students are expected to be already familiar with basic circuit analysis, basic physics, and the elements of calculus. During the course, the fundamentals of circuit analysis will be reviewed, and then more advanced topics and methods of analysis will be introduced.

ATE 420 **Electro-Optics. 4 Semester Hours.** (Also listed as IT 420.) (Lab Fee.)
Prerequisite: IT 320 and PY 302. This course investigates electro-optical techniques and systems. This will include discussions of: electromagnetic waves, the optical spectrum, the modern theory of light, interaction of light with matter (geometrical and physical optics), optical sources (including LEDs and lasers), optical detectors, and electro-optic systems, such as fiber-optic systems and optical data storage. Course content will be based on the text and on lecture notes taken from a variety of sources.

ATE 425 **Introduction to Robotics. 4 Semester Hours.** (Also listed as ATM/IT 425.) (Lab Fee.)
Prerequisite: Introductory Electronic Courses. This course is designed to familiarize the student with the basic systems and concepts used in robotic control. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and will employ some basic concepts of calculus. A major component of the course will require students to develop and implement group projects using the RHINO robotic system.

ATE 430 Senior Project I. 3 Semester Hours.
The Senior Project I Course involves a supervised experience in the hands-on application of advanced electronics/instrumentation, information systems, or manufacturing technical skills within the context of a selected organization. Students will be assigned a "mentor" within the participating industrial organization who will, along with the advisor, assure that a project is selected which will be of practical benefit to both the student and advisor, assure that a project is selected which will be of practical benefit to both the student and the organization. The project will culminate with the preparation of a detailed technical report that summarizes the project effort. This report will be reviewed by the student's advisor, instructor, and the Dean of the School of Business for approval and award of academic credit.

ATE 432 Senior Project II. 3 Semester Hours.
This course involves a supervised experience in the hands-on application of advanced electronics/instrumentation, information systems, or manufacturing technical skills within the context of a selected organization. Students will be assigned a "mentor" within the participating industrial organization who will, along with the advisor, assure that a project is selected which will be of practical benefit to both the student and the organization. The project will culminate with the preparation of a detailed technical report that summarizes the project effort. This report will be reviewed by the student's advisor, instructor, and the Dean of the School of Business for approval and award of academic credit. In addition, each student will be required to prepare and present an executive summary of the project results to an audience consisting of the industrial partner representatives and School of Business representatives as chosen by the Dean of the School.

ATE 440 Process Control Instrumentation. 4 Semester Hours. (Also listed as IT 440.) (Lab Fee.)
Prerequisite: Senior standing and consent of instructor. This course is designed to familiarize the student with the basic systems and concepts used in process control. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and will employ some basic concepts of calculus.

ATE 441 Computer Instrumentation. 4 Semester Hours. (Also listed as IT 441.) (Lab Fee.)
Prerequisite: ATE 440. This course is designed to familiarize the student with the basic concepts used in computer control and instrumentation. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and will employ some basic concepts of calculus. A major component of the course will require students to develop and implement group projects using the LabVIEW data acquisition system.

ATIS 325 Decision Support Systems. 3 Semester Hours. (Also listed as CIS 325) (Lab Fee.)
Prerequisite: Any introduction to computers course in which spreadsheet and database tools were covered.
This course will evaluate design and implementation of computer information systems for solving semi-structured and unstructured problems. Provides introduction to concepts, structure, and capabilities of decision support (DSS), executive information (EIS),k and expert systems (ES). Principles and techniques of decision theory, computer modeling, and system architecture and construction are covered.

ATIS 365 Visual Application Development. 3 Semester Hours. (Also listed as CIS 365.) (Lab Fee.)
Prerequisite: Introductory computer programming course.
Course introduces students to programming in visual, event-driven environments. Students learn concepts of visual programming and underlying design principals used in developing applications in visual programming environments. An emphasis will be placed on design of user interfaces, on-line document, input, and output component including menus, forms, queries, and reports.

ATIS 401 Management Information Systems. 3 Semester Hours.
Management Information Systems (MIS) refers to the systems and capabilities necessary to management, process, use and transport information as a resource to the organization. This course is designed to provide students with fundamental concepts of the various components (hardware, software, data, procedures, telecommunications, the internet, and people) of information systems. This course will emphasize student group work in MIS related projects and topics.

ATIS 406 Applied Mathematics for Manufacturing. 3 Semester Hours.
These mathematics courses will include a specific course (three designation in total). All three of these mathematics options will be included in one course. Each course option will contain modules. Each module will be a project/hands-on learning of concepts. A typical module will last from 2 1/2 to 3 weeks and will be done by a participating group. At the end of the module, the group will present what they have learned and how they solved each problem.

ATIS 408 Information Systems Development. 3 Semester Hours.
This is not an introductory course! It is strongly recommended that the student have completed courses in ATIS/CIS 365 Visual Application Development and ATIS 405 Database Systems prior to attempting this course. The course presents an overview of computer systems and the system development life cycle. Emphasis then focuses on tools and techniques that the programmer or analyst can use to document the computer software systems. Classical and structured tools for describing data flow, file design, input and output surveys other important skills such as project management and cost-benefit analysis, configuration management, software quality assurance, fact-finding and communications.

ATIS 409 Fundamentals of Operations. 3 Semester Hours.
Fundamentals of Operations establishes a solid entry-level base of industrial knowledge upon which to build towards further growth in manufacturing and industrial supervision. This course introduces students to essential vocabulary and skills identifying and applying the basic principles of inventory control, planning, manufacturing control, and operational management. Included in this course are the principles of effective planning, details of priority and capacity management through the use of material requirements planning, and a survey of the relationship between goods and services and the operation of the system.

ATIS 410 Managing Information Systems. 3 Semester Hours.
This is not an introductory course! It is strongly recommended that the student have completed courses in ATIS 404 Visual Application Development and ATIS 405 Database Systems prior to attempting this source. The course presents an overview of computer systems and the system development life cycle. Emphasis then focuses on tools and techniques that the programmer or analyst can use to document the computer software systems. Classical and structured tools for describing data flow, file design, input and output design and program specifications are applied to documenting systems. This course surveys other important skills such as project management and cost-benefit analysis, configuration management, software quality assurance, fact-finding and communications.

ATIS 430 Senior Project I. 3 Semester Hours.
The Senior Project I Course involves a supervised experience in the hands-on application of advanced electronics/instrumentation, information systems, or manufacturing technical skills within the context of a selected organization. Students will b e assigned a "mentor" within the participating industrial organization who will, along with the advisor, assure that a project is selected which will be of practical benefit to both the student and the organization. The project will culminate with the preparation of a detailed technical report that summarizes the project effort. This report will be reviewed by the student's advisor, instructor, and the Dean of the School of Business for approval and award of academic credit.

ATIS 432 Senior Project II. 3 Semester Hours.
This course involves a supervised experience in the hands-on application of advanced electronics/instrumentation, information systems, or manufacturing technical skills within the context of a selected organization. Students will be assigned a "mentor" within the participating industrial organization who will, along with the advisor, assure that a project is selected which will be of practical benefit to both the student and the organization. The project will culminate with the preparation of a detailed technical report that summarizes the project effort. This report will be reviewed by the student's advisor, instructor, and the Dean of the School of Business for approval and award of academic credit. In addition, each student will be required to prepare and present an executive summary of the project results to an audience consisting of the industrial partner representatives and School of Business representatives as chosen by the Dean of the School.

ATIS 440 Database Systems. 3 Semester Hours. (Also listed as CIS 440) (Lab Fee.)
Prerequisite: CS 318. Introduces database systems, and their utilization and implementation. Concepts studied include organization, communications, integrity and security. Relational, network, and object-oriented database organizations are compared. Formal requirements of relational model and their utilization in distributed client/server environments presented.

ATM 401 Process, Product, and Facilities Design. 3 Semester Hours.
A course emphasizing the integration of all aspects of manufacturing activities and material handling systems. A systematic approach is used to design a manufacturing facility to produce a complex product. Particular attention is given to efficiency and productivity in layout, work-flows, and product handling sytems.

ATM 402 Manufacturing Issues. 3 Semester Hours.
A study of issues in manufacturing, including tooling systems for the integrated manufacturing environment, with an emphasis on design, geometric dimensioning and tolerances, fast change-over techniques, and acceptance of quality levels. The course will emphasize product reliability, sampling planning, loss functions, and the design of experiments to improve manufacturing.

ATM 403 Industrial Economy. 3 Semester Hours.
An examination of the operation of modern industrial economic systems in the United States, Western Europe, Japan, and Third World countries. Topics examined will include price determination, aggregate demand and supply theory, public policy options and the philosophical foundation of free market and command system economies. Time value of money, equivalence, and replacement analyses will also be addressed.

ATM 404 Introduction to Quality Control. 3 Semester Hours.
An introductory course covering the basic concepts of quality control systems in manufacturing settings. The course covers the use of Statistical Process Control methods and equipment on a variety of products and processes. Basic statistical methods as applied to quality control problems, sampling plans, product/process reliability, and the use of control charts for variables and attributes data are included.

ATM 406 Applied Mathematics for Manufacturing. 3 Semester Hours.
These mathematics courses will include a specific course (three designation in total). All three of these mathematics options will be included in one course. Each course option will contain modules. Each module will be a project/hands-on learning of concepts. A typical module will last from 2 1/2 to 3 weeks and will be done by a participating group. At the end of the module, the group will present what they have learned and how they solved each problem.

ATM 408 ISO Certification Issues. 3 Semester Hours.
A course covering the basic fundamental concepts of ISO 9000 issues, problems, and outcomes. The course covers the history of ISO 9000, quality concepts relating to ISO certification, and the organization and activities necessary to achieve this certification. The course will also cov er the management and organizational commitment necessary to successfully reach this plateau of performance.

ATM 409 Fundamentals of Operations. 3 Semester Hours.
Fundamentals of Operations establishes a solid entry-level base of industrial knowledge upon whicb to build towards further growth in manufacturing and industrial supervision. This course introduces students to essential vocabulary and skills identifying and applying the basic principles of inventory control, planning, manufacturing control, and operational management. Included in this course are the principles of effective planning, details of priority and capacity management througb the use of material requirements planning, and a survey of the relationship between goods and services and the operation of the system.

ATM 410 Basics of Supply Chain. 3 Semester Hours.
The course explores the basic concepts of the industrial flow of materials in a supply chain. Included is a complete overview of material flow, from internal and external suppliers to and from the organization. Topics of discussion include elements of the supply chain, Just-in-Time (JIT), total quality management (TQM), manufacturing resources planning (MRP II), demand planning, and capacity management. Specific case studies are utilized along with appppropriate

ATM 412 Master Planning of Resources. 3 Semester Hours.
Master Planning of Resources concentrates on the processes used to develop sales and operations plans and teaches the student to identify and assess internal and external demand and forecasting requirements. The course focuses on the importance of producing achievable master schedules that are consistent with organizational business policies, objectives, and resource constraints. Course topics include demand management, sales and operations planning, master scheduling and measuring the business plan.

ATM 414 Detailed Scheduling and Planning. 3 Semester Hours.
Detailed Scheduling and Planning focuses on the various techniques for material and capacity scheduling. The course includes detailed descriptions of material requirements planning (MRP), capacity requirements planning (CRP), inventory management practices, and procurement and supplier planning. Topics include recognizing techniques and practices of inventory control; mechanics of the detailed material planning process; planning operations to support the priority plan, and planning procurement and external sources of supply.

ATM 416 Execution and Control of Operations. 3 Semester Hours.
Execution and Control of Operations focuses on the areas of prioritizing and sequencing work, executing work plans and implementing controls, reporting activity results, and providing feedback on performance. The course explains techniques for scheduling and controlling production processes, the execution of quality initiatives and continuous improvement plans, and the control and handling of inventories. Course topics include prioritizing and sequencing work, executing plans and implementing controls, authorizing and reporting activities for push and pull systems, and evaluating performance and providing feedback.

ATM 418 Strategic Resource Planning. 3 Semester Hours.
This course explores the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. The course addresses aligning resources with the strategic plan; configuring and integrating operating processes to support the strategic plan, and implementing change; competitive market issues; choices affecting facilities, supply chain, information technology, and organizational design; configuring and integrating internal processes; and evaluating and managing projects.

ATM 425 Introduction to Robotics. 4 Semester Hours. (Also listed as ATE/IT 425.) (Lab Fee.)
Prerequisite: Introductory electronic courses. This course is designed to familiarize the student with the basic systems and concepts used in robotic control. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and will employ some basic concepts of calculus. A major component of the course will require students to develop and implement group projects using the RHINO robotic system.

ATM 430 Senior Project I. 3 Semester Hours.
The Senior Project I Course involves a supervised experience in the hands-on application of advanced electronics/instrumentation, information systems, or manufacturing technical skills within the context of a selected organization. Students will b e assigned a "mentor" within the participating industrial organization who will, along with the advisor, assure that a project is selected which will be of practical benefit to both the student and the organization. The project will culminate with the preparation of a detailed technical report that summarizes the project effort. This report will be reviewed by the student's advisor, instructor, and the Dean of the School of Business for approval and award of academic credit.

ATM 432 **Senior Project II. 3 Semester Hours.**
This course involves a supervised experience in the hands-on application of advanced electronics instrumentation, information systems, or manufacturing technical skills within the context of a selected organization. Students will be assigned a "mentor" within the participating industrial organization who will, along with the advisor, assure that a project is selected which will be of practical benefit to both the student and the organization. The project will culminate with the preparation of a detailed technical report that summarizes the project effort. This report will be reviewed by the student's advisor, instructor, and the Dean of the School of Business for approval and award of academic credit. In addition, each student will be required to prepare and present an executive summary of the project results to an audience consisting of the industrial partner representatives and School of Business representatives as chosen by the Dean of the School.

ATM 435 **Industrial Health and Safety. 3 Semester Hours.** (Also listed as CE 435.)
Identifies potential safety hazards as they pertain to vocational shops and industry. Accident prevention techniques are provided. OSHA is introduced to the student in his/her area of skill concentration

Biology (BI) Courses

BI 300 **Microbes and You. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 300L. Prerequisite: Principles of Biology I and II, or consent of instructor. An introductory microbiology course which examines the major groups of bacteria and instills awareness of the importance of microbes to the Earth's ecology.

BI 300L **Microbes and You Lab. 1 Semester Hour.**
Corequisite: BI 300.

BI 301 **Cell Structure and Function. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 301L. Prerequisite: Principles of Biology I, Introductory Chemistry with lab, or CH 301, or CH 303, or equivalent, or consent of instructor. Considers molecular organization of basic cellular components, including membranes, nucleic acids, and proteins, and how these are assembled into organelles and other cellular structures. Explores mechanisms of enzyme and organelle function and coordination.

BI 301L **Cell Structure and Function Lab. 1 Semester Hour.**
Corequisite: BI 301.

BI 302 **Genetics. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 302L. Prerequisite: Principles of Biology I, Introductory Chemistry with lab, or CH 301, or CH 303, or equivalent, or consent of instructor. Up-to-date treatment emphasizing structure, function, and regulation of genes, recombinant DNA techniques and applications, principles and patterns of Mendelian inheritance, and population genetics.

BI 302L **Genetics Lab. 1 Semester Hour.**
Corequisite: BI 302.

BI 303 **General Ecology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 303L. Prerequisite: Principles of Biology I and II, or Plant Biology and Animal Biology, or consent of instructor.
Study of extant organisms and how they interact with one another and with their nonliving environments. Interactions investigated at individual, population, community, and ecosystem levels. Qualitative, quantitative, and theoretical aspects of ecology discussed.

BI 303L **General Ecology Lab. 1 Semester Hour.**
Corequisite: BI 303.

BI 311 **Biodiversity of North Alabama. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 311L. This course is designed as an introduction to the diversity of habitats and organisms found in northern Alabama. A broad variety of topics relating to the natural history and adaptations of the various organisms inhabiting this region will be discussed. Field trips required.

BI 311L **Biodiversity of North Alabama Lab. 1 Semester Hour.**
Corequisite: BI 311. Lab runs concurrently with lecture.

BI 321 **Conservation Biology. 3 Semester Hours.**
A synthetic discipline addressing loss of biological diversity throughout the world, incorporating population biology, community ecology, evolution, genetics, taxonomy, paleontology, zoo management, wildlife ecology, agriculture, forestry, and elements of history, philosophy, economics, anthropology, and public policy.

BI 322 **Human Genetics. 3 Semester Hours.** (Lab fee.)
Prerequisite: Genetics (BI 302), or consent of instructor. Presents principles of human genetics, and considers social, cultural, and ethical implications of these as applied to the human condition.

BI 323 **Human Reproduction. 3 Semester Hours.**
A comprehensive approach to human reproduction emphasizing structure and function, fertilization, prenatal development, pregnancy, birth, sexual disorders, and reproductive technology.

BI 333 **Issues in Biology Today. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 333L. An introduction to fundamental concepts of biology with emphasis on current research and ethical issues. Topics include: classical, molecular and human genetics, biotechnology, evolution, human origins, sociobiology, and nutrition and health.

BI 333L **Issues in Biology Today Lab. 1 Semester Hour.**
Corequisite: BI 333.

BI 334 **Issues in Biology Today II. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 334L. An introduction to fundamental concepts in biology with emphasis on current research and ethical issues. Topics include: Cancer, the nervous system, drug action and addiction, the immune system, HIV, plants and crops, and biodiversity and threatened habitats.

BI 334L **Issues in Biology Today II Lab. 1 Semester bour.**
Corequisite: BI 334.

BI 340 **Medical and Biological Visualization. 3 Semester Hours.** (Lab fee.) (Also listed as AR 340 and PE 340.)
This course helps students develop perceptual motor ability (the ability to deal with objects through visualization). Perceptual motor ability has long been an indicator of success in fields like dentistry, medicine, architecture, art and 3-D computerization. The course will teach the visualization of anatomical and biological structures, to survey the common components of graduate courses in medical and biological illustration for the purpose of preparing pre-health and/or art undergraduates to express thinking through diagrams, sculpture, illustrations and computer graphics.

BI 341 **Biogeography. 3 Semester Hours.** (Also listed as GO 341.)
Prerequisite: BI 303, or consent of instructor. Presents biological aspects of geography Designed to instill greater appreciation and awareness of man's physical environment and of mechanisms which control distribution of plants and animals on planet Earth.

BI 342 **Economic Botany. 3 Semester Hours.**
Presents important role plants have played in development of civilizations and cultures, past and present. Emphasis placed on origins of agriculture and domestication of plants, on development of early irrigation and rainfall agriculture civilizations, on importance of plants in religion, medicine, commerce, politics, and war, and on future of plants in relation to man.

BI 400 **Pre-Health Capstone. 3 Semester Hours. Pass/Fail Grading.**
The purpose of this course is to provide a mechanism whereby students interested in health-related careers can examine their knowledge of basic scientific principles using the criterion of standardized tests. The class will be team taught, with one class coordinator responsible for examining students' knowledge and other participating faculty available to reinforce knowledge in those areas perceived to be deficient for a particular student. The class will also examine health related career options and advanced training opportunities in particular areas of health care. This course is a pass/fail course and does not count toward the 18 semester hours of upper division biology course work required for biology majors.

BI 409 **Biochemistry. 3 Semester Hours.** (Also listed as CH 409.)
Prerequisite: CH 305 or CH 311. Study of proteins, carbohydrates, lipids, and other important biochemical compounds and their metabolic functions. Enzyme reaction mechanisms and biological oxidations are included.

BI 411 **Invertebrate Systematics and Morphology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 411L. Prerequisite: Principles of Biology I and II, or Animal Biology, or consent of instructor.
Inclusive and in-depth survey of invertebrate animals covering all phyla from protozoa through echinoderms. Emphasis on morphological structures characterizing each phylum, on systematic approach taken in each phylum, and on phylogenetic relationships among the various phyla.

BI 411L **Invertebrate Systematics and Morphology Lab. 1 Semester Hour.**
Corequisite: BI 411.

BI 412 **Invertebrate Development and Function. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 412L. Prerequisite: Principles of Biology I and II, or Animal Biology, or consent of instructor. Study of developmental and functional aspects of invertebrates. Emphasis on feeding, locomotion, respiration, excretion, defense, reproduction, development, and control. All major taxonomic groups of invertebrates considered. Lab emphasis on structural-functional relationships.

BI 412L **Invertebrate Development and Function Lab. 1 Semester Hour.**
Corequisite: BI 412.

BI 413 **Vertebrate Zoology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 413L. Prerequisite: Principles of Biology I and II, or Animal Biology, or consent of instructor. Presents principles of vertebrate systematic biology, factors governing distribution of vertebrates, methods used by vertebrates to solve environmental problems, reproductive physiology and behavior, and population dynamics. Laboratory emphasis on identification of local vertebrates and statistical interpretation of population and community data.

BI 413L **Vertebrate Zoology Lab. 1 Semester Hour.**
Corequisite: BI 413.

BI 414 **Comparative Vertebrate Anatomy. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 414L. Prerequisite: Principles of Biology I and II, or Animal Biology, or consent of instructor. Presents functional and comparative morphology of chordates with additional emphasis on development and evolution. Lab emphasis on structural-functional relationships.

BI 414L **Comparative Vertebrate Anatomy Lab. 1 Semester Hour.**
Corequisite: BI 414.

BI 415 **Microbial Toxins and Human Health. 3 Semester Hours.**
Prerequisites: Principles of Biology I and II and an introductory course in microbiology or consent of instructor. This advanced microbiology course examines the roles of microbes as human pathogens and as a source of contamination in the food industry.

BI 420 **Field Vertebrate Zoology I: Ichthyology and Herpetology. 4 Semester Hours.** (Lab fee.)
Prerequisite: Principles of Biology II, and either BI 303 or BI 413, or consent of instructor. A course in systematic and ecological ichthyology and herpetology. Introduces diversity of fishes, amphibians, and reptiles, position and content of major groups, their classification, relationships, and basic structure, with emphasis on living representatives, particularly those of the Tennessee Valley region of North Alabama.

BI 422 **Field Vertebrate Zoology II: Ornithology and Mammalogy. 4 Semester Hours.** (Lab fee.)
Prerequisite: Principles of Biology II, and either BI 303 or BI 413, or consent of instructor. A course in systematic and ecological ornithology and mammalogy. Introduces diversity of birds and mammals, position and content of major groups, their classification, relationships, and basic structure, with emphasis on living representatives, particularly those of the Tennessee Valley region in North Alabama.

BI 423 **Histology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 423L Prerequisites: Principles of Biology I and II.
This course studies the groups of specialized cells called tissues. Tissue organization is examined at all levels, from the whole organ to the molecular components of cells. Histological techniques include tissue culture, fixing and staining, microscopy, and biochemistry.

BI 423L **Histology Lab. 1 Semester hour.**
Corequisite: BI 423.

BI 424 **Animal Physiology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 424L. Prerequisite: Principles of Biology I and II, or Animal Biology, and Introductory Chemistry with lab, or CH 301, or CH 303, or equivalent, or consent of instructor.
Examines mechanisms of various physiological processes in animals at molecular and cellular levels, including muscle and nerve action, signal transduction via hormones, operation of immune system, AIDS, tumor formation, and development of cancer.

BI 424L **Animal Physiology Lab. 1 Semester Hour.**
Corequisite: BI 424.

BI 425 **Embryology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 425L. Prerequisites: Principles of Biology I and II. This course considers the period of growth and differentiation from fertilization until hatching or birth of an animal or, in plants, germination. Vertebrate and human models will be emphasized. Concepts explored in terms of cell biology, genetics, and comparative vertebrate anatomy.

BI 425L **Embryology Lab. 1 Semester hour.**
Corequisite: BI 425.

BI 427 **Parasitology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 427L. Prerequisites: Principles of Biology I and II. Study of the relationships between parasites and their hosts, with emphasis on vertegrate and human models Concepts discussed in terms of systematics, molecular biology, ecology, and evolutionary biology.

BI 427L **Parasitology Lab. 1 Semester hour.**
Corequisite: BI 427.

BI 429 **Immunology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 429L. Prerequisites: Principles of Biology I and II. This course examines the evolution, organization, and function of immune systems, with an emphasis on vertebrate and human models. Concepts discussed in terms of cell biology, genetics, and evolutionary biology.

BI 429L **Immunology Lab. 1 Semester hour.**
Corequisite: BI 429.

BI 431 **Plant Systematics and Morphology. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 431L. Prerequisite: Principles of Biology I and II, or Plant Biology, or consent of instructor. In-depth survey of non-vascular and vascular plants. Emphasis on morphological structures characterizing each division, subdivision, class, and subclass of plants, on systematic approach taken at each level of taxonomic hierarchy, and on phylogenetic relationships among the various groups of plants.

BI 431L **Plant Systematics and Morphology Lab. 1 Semester Hour.**
Corequisite: BI 431.

BI 432 **Plant Development and Function. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: BI 432L. Prerequisite: Principles of Biology I and II, or Plant Biology, or consent of instructor. Study of developmental and functional aspects of plants. Emphasis on embryology and development, physiology, genetics, reproduction, and organismal ecology. All major taxonomic groups of plants considered.

BI 432L **Plant Development and Function Lab. 1 Semester Hour.**
Corequisite: BI 432.

BI 440 **Biotechnology. 3 Semester Hours.** (Lab fee.)
Prerequisite: Principles of Biology I, II, and BI 302. Laboratory-based exploration of theory and application of several techniques fundamental to biotechnology and molecular biology. Exercises include manipulation of bacterial strains, viruses and plasmids, advanced DNA cloning, Southern blotting of genomic DNA, protein purification, and polymerase chain reaction. Application of these techniques to a range of biological sciences explored.

BI 441 **Special Topic in Biology. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

BI 442 **Special Topic in Biology. 2 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

BI 443 **Special Topic in Biology. 3 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

BI 444 **Special Topic in Biology. 4 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

BI 450 **Research Seminar. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need. Affords biology major opportunity to develop and present results of laboratory and/or field research.

BI 461 **Directed Study/Research in Biology. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

BI 462 **Directed Study/Research in Biology. 2 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

BI 463 **Directed Study/Research in Biology. 3 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

Career and Technical (CE) Courses

CE 302 **History and Principles of Career/Technical Education. 3 Semester Hours.**
A course designed to relate the development of vocational and technical education from historic apprenticeships to contemporary vocational and technical programs. Philosophies and principles of vocational and technical education are also reviewed.

CE 432 **Teaching Career/Technical Education. 3 Semester Hours. (Lab fee.)**
A review of teaching strategies, procedures, audiovisual lab, and concrete experiences which may be used to develop specific performance objectives for instruction.

CE 433 **Learning Resources and Technology in Career/Technical Education. 3 Semester Hours.** (Lab fee.)
Includes teaching devices and methods of application, desirable teaching facilities, motivation and development of skill, reasoning qualities, lesson planning. A computer lab is included.

CE 434 **Course Development and Evaluation in Career/Technical Education. 3 Semester Hours.**
A course designed to provide a knowledge of the problems, techniques, and procedures in the selection and organization of subject matter for instructional purposes. Each student is required to develop a two-year career/technical curriculum suitable for implementation in career/technical schools.

CE 435 **Industrial/Shop Safety. 3 Semester Hours.**
Identifies potential safety hazards as they pertain to vocational education shops in the schools and industrial shops. Accident prevention techniques are provided. OSHA is introduced to the student in his or her area of skill concentration.

CE 435 **Industrial Health and Safety. 3 Semester Hours.**
Identifies potential safety hazards as they pertain to vocational shops and industry. Accident prevention techniques are provided. OSHA is introduced to the student in his/her area of skill concentration.

CE 436 **Career/Technical Information Guidance. 3 Semester Hours.**
Introductory course in career/technical guidance to provide principles and techniques necessary to organize and operate vocational guidance services in the public school.

CE 438 **Classroom/Laboratory Management. 3 Semester Hours.**
Provides a knowledge of the problems, techniques, and procedures used to maintain and manage vocational and industrial shops for instructional purposes or for manufacturing. Deals with the organization, management, and care of shops. Field experience is required.

CE 439 **Career/Technical Student Youth Organizations. 3 Semester Hours.**
Provides the procedures for establishing, implementing and operating student organization and advisory committees.

CE 440 **Testing and Evaluation in Career/Technical Education. 3 Semester Hours.**
A course designed to review the techniques and methods used to measure and interpret student achievement.

CE 441 **Special Topics in Career/Technical Education. 1 Semester Hours.**
To be offered on occasion of student demand or need.

CE 442 **Special Topics in Career/Technical Education. 2 Semester Hours.**
To be offered on occasion of student demand or need.

CE 445 **Functions of the Coordinator. 3 Semester Hours.**
Prepares the student to organize and administer the various programs in career/technical education that are of a cooperative nature. Field experience is required.

CE 446 **Individualizing Instruction in the Career and Technical Programs. 3 Semester Hours.**
A study of instructional strategies and procedures for meeting the individual needs of students.

CE 450 **Practicum in Advanced Technical Studies. 3 Semester Hours.**
Prerequisite: Requires B overage in core. Moy only toke one of the following per semester: CE 450, 451, or 452. Must be in-service teocher. Individually designed laboratory studies in a variety of state-of-the-art technologies.

CE 451 **Practicum in Advanced Technical Studies. 3 Semester Hours.**
Prerequisite: Requires B overoge in core. Moy only toke one of the following per semester: CE 450, 451, or 452.Must be in-service teocher. Requires permission of the Deportment Choir. Individually designed laboratory studies in a variety of state-of-the-art technologies.

CE 452 **Practicum in Advanced Technical Studies. 3 Semester Hours.**
Prerequisite: Requires B overoge in core. Must be in-service teocher. Requires permission of the Deportment Choir. Individually designed laboratory studies in a variety of state-of-the-art technologies.

CE 459 **Advanced Career and Technical Specialty. 12 Semester Hours.**
This course designates credit that is to be awarded for advanced industrial or educational work experience (nonteaching) in the specialization area. No credit will be granted for work experience which does not exceed in responsibility the original level of training.

CE 460 **Directed Study/Research Career/Technical Education. 3 Semester Hours.**
To be offered on occasion of student demand or need. To be taken only during graduating semester with permission of Department Chair.

CE 461 **Related Training Career and Technical Education. 3 Semester Hours.** (To be taken the semester before graduation.) Courses designed to include attendance at an approved industrial, company-operated school for the purpose of providing the career/technical teacher with advanced related technical training. Courses are open to qualified teachers or individuals preparing to enter this field of teaching. Detail planning for each course will be conducted by a team of post-secondary trade and industrial teachers from throughout the state, academic deans of technical colleges, presidents of technical colleges, State Department representatives, and the academic personnel of the college. Planning relates to ED 460, also.

CE 469 **Career and Technical Specialty. 3 Semester Hours.**
Prerequisite: Limited to In-Service Teochers. Three semester hours of credit may be awarded for each year of documented vocational specialty teaching experience verified by the director or supervisor in vocational and technical school. A limit of six semester hours credit is granted. Only three semester hours may be earned for a 12-month period. This teaching experience must have been supervised and evaluated and may be from an approved military school, industrial and business school, proprietary school, or public career/technical school at either the secondary or post-secondary level.

CE 470 **Practicum-Supervised Work Experience. 3 Semester Hours.** (Lab fee.)
Prerequisite: Admission to the Teocher Educotion Admission Progrom. Requires permission of the Deportment Choir. College/University supervised work experience in a program area work setting. Consult with advisor before enrolling.

CE 471 **Practicum-Supervised Work Experience. 3 Semester Hours.** (Lab fee.)
Prerequisite: Admission to the Teocher Educotion Admission Progrom. College/University supervised work experience in a program area work setting.

CE 472 **Practicum-Supervised Work Experience. 3 Semester Hours.** (Lab fee.)
Prerequisite: Admission to the Teocher Educotion Progrom. College/University supervised work experience in a program area work setting.

CE 483 **Practicum in Teaching Career and Technical Education. 3 Semester Hours.**
Prerequisite: CE 434. Requires permission of the Deportment Choir. A series of studies designed to expand the current teaching skills of in-service teachers of technical subjects. These courses may not be substituted.

CE 484 **Practicum in Teaching Career and Technical Education. 3 Semester Hours.**
Prerequisite: CE 432. Requires permission of the Deportment Choir. A series of studies designed to expand the current teaching skills of in-service teachers of technical subjects. These courses may not be substituted.

CE 485 **Practicum in Teaching Career and Technical Education. 3 Semester Hours.**
Prerequisite: CE 440. Requires permission of the Deportment Chair. A series of studies designed to expand the current teaching skills of in-service teachers of technical subjects. These courses may not be substituted.

CE 487 **Internship Career/Technical Education (Pre-service.) 9 Semester Hours.** (Lab Fee.)
A course which provides an opportunity for prospective teachers to observe and implement instruction in a technical college setting under the guidance of a cooperating teacher. Participation in the full-school program is required. Consult with advisor two semesters before enrolling.

Chemistry (CH) Courses

CH 301 **Introductory Chemistry. 3 Semester Hours.** (Lab.) (Lab fee)
Prerequisite: Precolculus Algebra. Basic chemistry for science majors. Emphasis on elementary concepts of atomic theory, thermodynamics, kinetics, acids, bases, and equilibrium. Course will not serve as upper-level chemistry for science majors nor as substitute for CH 303.

CH 301L **Introductory Chemistry Lab. 1 Semester Hour.**
Corequisite: CH 301.

CH 303 **Chemistry I. 3 Semester Hours.** (Lab fee.)
Corequisite: CH 303L. Prerequisite: Precolculus Algebra.
Study of chemical principles important to student of scientific technologies. Topics include atomic theory, the periodic table, thermochemistry, gases, solids, and liquids.

CH 303L **Chemistry I Lab 1 Semester Hour.**
Corequisite: CH 303.

CH 304 **Chemistry II. 2 Semester Hours.** (Continuation of CH 303.)
Prerequisite: Generol Chemistry I, or CH 303.
Topics include kinetics, equilibrium, and acids and bases.

CH 305 **Fundamentals of Organic Chemistry. 2 Semester Hours.** (Lab.) (Lab fee.)
Prerequisite: Generol Chemistry I, II, or CH 303, 304.
Introduction to organic molecules and their functional groups. Some characteristic reactions also included. Course is not required prerequisite for CH 311 and may be omitted if CH 311, 312, 313 sequence is to be taken.

CH 305L **Fundamentals of Organic Chemistry Lab. 1 Semester Hour.**
Corequisite: CH 305.

CH 311 **Organic Chemistry I. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: CH 311L. Prerequisite: Generol Chemistry I, II, or CH 303, 304.
Basic study of aliphatic and aromatic compounds, their properties, preparation, and reactions, with emphasis on theory and mechanisms of reaction. Laboratory includes organic qualitative analysis.

CH 311L **Organic Chemistry I Lab. 1 Semester Hour.**
Corequisite: CH 311.

CH 312 **Organic Chemistry II. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: CH 312L. Prerequisite: CH 311.
Basic study of aliphatic and aromatic compounds, their properties, preparation, and reactions, with emphasis on theory and mechanisms of reaction. Laboratory includes organic qualitative analysis.

CH 312L **Organic Chemistry II Lab. 1 Semester Hour.**
Corequisite: CH 312.

CH 314 **Polymer Science. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite CH 314L. Prerequisite: CH 305, or 311.
Study of synthesis, characterization, testing, and reactions of polymers, including step-reaction polymerization, ionic chain reactions, free radical chain polymerization, copolymerization, and inorganic polymers, in addition to effects of additives and fillers.

CH 314L **Polymer Science Lab. 1 Semester Hour.**
Corequisite CH 314.) Prerequisite: CH 305, or 311.

CH 324 **Analytical Chemistry. 3 Semester Hours.** (Lab.) (Lab fee.)
Prerequisite: General Chemistry I, II, or CH 303, 304.
Classical volumetric techniques in chemical analysis, modern methods of chemical separation, and basic instrumentation techniques.

CH 324L **Analytical Chemistry Lab. 1 Semester Hour. Corequisite: CH 324.**

CH 330 **Environmental Chemistry. 3 Semester Hours.** (Lab fee.) (Also listed as GS 330.)
Study of natural chemical processes of Earth and actual and possible effects of humans on natural chemical systems. Environmental problems such as air and water pollution, ozone depletion, and global warming discussed. Also may include introduction to some methods of environmental analysis and pertinent environmental regulations.

CH 409 **Biochemistry. 3 Semester Hours.** Also listed as BI 409.
Prerequisite: CH 305, or CH 311. Study of proteins, carbohydrates, lipids, and other important biochemical compounds and their metabolic functions. Enzyme reaction mechanisms and biological oxidations included.

CH 410 **Instrumental Analysis. 3 Semester Hours.** (Lab fee.)
Corequisite: CH 410L. Prerequisite: CH 324. Theoretical application of modern instrumentation to problems in analytical chemistry. Optical, electrochemical, and other instrumentation techniques covered.

CH 410L **Instrumental Analysis Lab. 1 Semester Hour.**
Corequisite: CH 420. Prerequisite: CH 324. Practical application of modern instrumentation to problems in analytical and environmental chemistry.

CH 420 **Intermediate Inorganic Chemistry. 3 Semester Hours.**
Prerequisite: Generol Chemistry I, II, or CH 303, 304. Atomic structure, bonding, trends in the periodic table, and coordination chemistry. Also may include catalysis, group theory, and structure and properties of solids of bio-inorganic chemistry.

CH 430 **Physical Chemistry I. 4 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: CH 430L. Prerequisite: General Chemistry I, II, or CH 303, 304, and MA 304, and PY 303.
Application of laws of physics and mathematics to study of thermodynamics, equilibria, and kinetics.

CH 430L **Physical Chemistry I Lab 1 Semester Hour.**
Corequisite: CH 430. Laboratory includes introduction to working with personal computers and spreadsheet programs.

CH 431 **Physical Chemistry II. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite 431L. Prerequisite: CH 430, 420, or consent of instructor. Application of laws of physics and mathematics to study of quantum chemistry, molecular structure, and spectroscopy. Laboratory includes experience with computer programs pertinent to chemistry.

CH 431L **Physical Chemistry II Lab** 1 Semester Hour.
Corequisite: CH 431.

CH 441 **Special Topic in Chemistry. 3 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

CH 442 **Special Topic in Chemistry. 4 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

CH 461 **A Directed Study/Research in Chemistry. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need. (Course may consist of instrumentation internship that may be substituted for CH 410L.)

CH 462 **Directed Study/Research in Chemistry. 2 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

CH 463 **Directed Study/Research in Chemistry. 3 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

Computer Information Systems Courses (CIS)

CIS 301 **Problem Solving With Computers. 3 Semester Hours.** (Also listed as ATC 301.) (Lab fee.) **Designed for non-computer science, non-cis majors.**
This course is designed to strengthen the student's grounding in common computer applications. Emphasis will be on the understanding of applications and how they use the associated technology. The course will be conducted through lecture, in-class computing laboratories, and out-of-class assigned problems and projects. CIS 301 may only be taken for CIS majors as a substitution for the Microcomputer Applications course required.

CIS 325 **Decision Support Systems. 3 Semester Hours.** (Also listed as ATIS 325.) (Lab fee.)
Prerequisite: Any introduction to computers course in which spreadsheet and database tools were covered. This course will evaluate design and implementation of computer information systems for solving semi-structured and unstructured problems. Provides introduction to concepts, structure, and capabilities of decision support (DSS), executive information (EIS), and expert systems (ES). Principles and techniques of decision theory, computer modeling, and system architecture and construction are covered.

CIS 365 **Visual Application Development. 3 Semester Hours** (Also listed as ATIS 365.) (Lab fee.)
Prerequisite: Introductory computer programming course. Course introduces students to programming in visual, event-driven environments. Students learn concepts of visual programming and underlying design principals used in developing applications in visual programming environments. An emphasis will be placed on design of user interfaces, on-line document, input, and output component including menus, forms, queries, and reports.

CIS 440 **Database Systems. 3 Semester Hours.** (Also listed as ATIS 440.) (Lab fee.)
Prerequisite: CS 318. Introduces database systems, their utilization, and implementation. Concepts studied include organization, communications, integrity and security. Relational, network, and object-oriented database organizations are compared. Formal requirements of relational model and their utilization in distributed client/server environments presented.

CIS 450 **Human-Computer Interaction. 3 Semester Hours.** (Lab fee.)
Prerequisite: CIS 365. Course covers interaction between modern computer interfaces and system users. Students examine user diversity and its impact on design of user interfaces. Techniques for task analysis, interface prototyping, and methods for using usability tests to evaluate effectiveness of human-computer dialogs are also covered. Emphasis is placed on the integration of human-computer interaction principles into software engineering life cycle. Theories, principles, and guidelines for interface development and testing are learned through design and development of prototypes for various types of user interfaces.

Computer Networking (CN) Courses

CN 301 **Networking Fundamentals. 2 Semester Hours.** (Lab fee.)
Prerequisite: Any two Computer Science classes. Introduces the student to underlying concepts of data communication, telecommunications, and networking. Focuses on terminology and technologies in current networking environments. Provides general overview of field of networking as basis for continued study in field.

CN 302 **Local Area Networks. 2 Semester Hours.** (Lab fee.)
Prerequisite: CN 301. Presents the latest concepts of local area network (LAN) technologies. Provides a comprehensive introduction to the concepts, technologies, components, and acronyms inherent in today's local networking environments.

CN 303 **Wide Area Networks. 2 Semester Hours.** (Lab fee.)
Prerequisite: CN 302. Provides conceptual and working knowledge of how LANs communicate over wide area. Introduces telephony and the technology of switched-voice communications. Provides an understanding of how communication channels of public switched-telephone networks are used for data communication and how voice data communication have become integrated.

CN 304 **Network Architectures. 2 Semester Hours.** (Lab fee.)
Prerequisite: CN 302. Outlines three important networking architectures in today's corporate environments: TCP/IP, SNA, and DNA. The major components and functions of each of these architectures are discussed, as well as methods used to connect different architectures. Provides concepts important to the field of Systems integration and conceptual basis for understanding network architecture.

CN 401 **Internetworking Devices. 2 Semester Hours.** (Lab fee.)
Prerequisite: CN 302. Advanced course intended for networking professionals and students who already grasp the general concepts of data communications and networking but would like a more detailed understanding of internetworking. Techniques and components for managing network growth and connecting disparate network architectures will be presented and solutions to internetworking problems will be developed.

CN 402 **The Internet. 2 Semester Hours.** (Lab fee.)
Prerequisite: CN 302. Familiarizes the student with the operation and function of the Internet. Covers the underlying components and protocols that make up the Internet and the services provided. Internet tools will be used to illustrate concepts. Provides concepts necessary to establishing and maintaining Internet connectivity. Tools used to navigate and access information on the Internet will be studied.

CN 403 **Network Processes and Protocols. 2 Semester Hours.** (Lab fee.)
Prerequisite: CN 304. Advanced course intended for networking professional and students who grasp the basic concepts of networking but would like to understand, in more detail, some of the major protocols controlling the flow of information between data communication layers and between cooperating processes on network nodes. Trace and analysis tools will be used to analyze the frames and packets traversing a network.

CN 404 **Enterprise Network Design and Management. 2 Semester Hours.** (Lab fee.)
Prerequisite: CN 304. Advanced course intended for networking professionals and students who grasp basic concepts of networking but would like to understand methods used to analyze, design, and manage LANs and point-to-point networks. Exercises are geared toward learning techniques used to design and analyze networks.

Cooperative Education (CP) Courses

Prerequisite: A minimum overall grade point average of 2.5 and prior approval of the Co-op Education Office. Courses must be taken in sequential order.

CP 301 **Co-op Practicum I. 1 Semester Hour.**
Co-op Work Experience. This is the first in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of the student's productivity and content of a descriptive report submitted by the student.

CP 302 **Co-op Practicum II. 1 Semester Hour.**
Co-op Work Experience. The second in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 303 **Co-op Practicum III. 1 Semester Hour.**
Co-op Work Experience. The third in a series of courses wherein students work on a part-time basis in a job directly related to their a academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 304 **Co-op Practicum IV. 1 Semester Hour.**
Co-op Work Experience. The fourth in a series of courses wherein students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 305 **Co-op Practicum V. 1 Semester Hour.**
Co-op Work Experience. The fifth in a series of courses wherein the students work on a part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 306 **Co-op Practicum VI. 1 Semester Hour.**
Co-op Work Experience. The sixth in a series of courses wherein the students work on part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 307 **Co-op Practicum VII. 1 Semester Hour.**
Co-op Work Experience. The seventh in a series of courses wherein the students work on part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 308 **Co-op Practicum VIII. 1 Semester Hour.**
Co-op Work Experience. The last in a series of courses wherein the students work on part-time basis in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a descriptive report submitted by the student.

CP 401 **Work Experience I. 2 Semester Hours.**
Co-op Work Experience. The first in a series of courses wherein the student works on a full-time basis in a job related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of descriptive reports submitted by the student.

CP 402 **Work Experience II. 2 Semester Hours.**
Co-op Work Experience. The second in a series of courses wherein the student works on a full-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of descriptive reports submitted by the student.

CP 403 **Work Experience III. 2 Semester Hours.**
Co-op Work Experience. The third in a series of courses wherein the student works on a full-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of descriptive reports submitted by the student.

CP 404 **Work Experience IV. 2 Semester Hours.**
Co-op Work Experience. The fourth in a series of courses wherein the student works on a full-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of descriptive reports submitted by the student.

CP 405 **Work Experience V. 2 Semester Hours.**
Co-op Work Experience. The fifth in a series of courses wherein the student works on a full-time basis in a job directly related to their academic major. Grades will be based on the employer's evaluation of student productivity and content of descriptive reports submitted by the student.

CP 410 **Co-op Work Experience. 1 Semester Hour.**
A course wherein the student works a minimum of 20 hours in a job directly related to their academic major. Grade will be based on the employer's evaluation of student productivity and content of a report submitted by the student.

Computer Science (CS) Courses

CS 309 **Introduction to Digital Logic Design. 3 Semester Hours.** (Lab.) (Lab fee.)
Corequisite: CS 309L, MA 308 or consent of instructor. A comprehensive introduction to Boolean Algebra and methods for designing circuits which implement Boolean expressions. Topics include binary numbers and codes, axioms and theorems of Boolean Algebra, standard algebraic forms of Boolean expressions, the use of methods such as Karnaugh Maps and the Quine-McCluskey procedures for simplification of Boolean expression, analysis and design of combinational and sequential circuits, register operations, and introduction to fault tolerance design.

CS 309L **Digital Design Lab. 1 Semester Hours.**
Corequisite: CS 309, MA 308, or consent of instructor.

CS 316 **ADA Programming. 3 Semester Hours.** (Lab Fee.)
Prerequisite: CS 318. Introduction to the basic concepts of the ADA language including conceptual overview and introduction to the design rationale for the ADA programming language Discussion of terminology, data types and the ADA data typing rules, object declarations and rules of object visibility, functions, and subprograms. A brief discussion of the concepts of data abstraction, packages, and tasks

CS 317 **Computer Science I (C++) 3 Semester Hours.** (Lab fee.)
Prerequisite: Pre-Calculus Algebra. This is the first course for any new CS or CIS student at ASU who lacks programming experience or has never been exposed to C++. It provides an introduction to computers and programming with problem solving techniques. Arithmetic and relational operations as well as I/O for elementary data types are covered as basic language constructs for alternation and iteration. Students are introduced to the concepts and the rationale for structured programming, using functions. The course will take the student through the use of structured data types strings, arrays, text files and records (structs). Basic sorting and searching algorithms will be covered. Programming assignments focus on the techniques of good programming style and how to design, code, debug, and document programs.

CS 318 **Computer Science II (C++) 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 317. This is an advanced course in computer programming using C++. The focus for this course is on the principles of structured programming, abstraction, and software design. It provides an introduction to algorithm analysis, recursion, pointers, and linked lists. Structured (modular) design and programming, using functions and parameters including scope are emphasized. Students will learn the principle of encapsulation (information hiding) and code reuse. Introduction to classes and inheritance are included. Programming assignments will focus on the techniques of design as a prerequisite of good programming.

CS 340 **Introduction to Assembly Language. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 309, 318. An introduction to computer architecture at the assembly language level. Methods for representing data in computers, the study of the assembly language of a specific computer. Studies addressing modes, instruction formats, and control structures of a typical assembly language. Introduction to the use of an assembler.

CS 372 **Data Structures. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 318. Continuation of CS 318 stressing concepts of abstraction, software engineering, and analysis of algorithms. Introduces stacks, queues, and trees, and presents problems and algorithms using these advanced data structures. Explains more efficient searching and sorting algorithms. Students required to show understanding of each of concept through programming assignments. While C++ is used to present algorithms, with instructors permission, student may use other programming language to complete assignments.

CS 409 **Computer Organization and Architecture. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 309, CS 340, and MA 308. A comprehensive study of the architecture of a hypothetical digital computer. The course will present an overview of computer architecture and then a detailed design of each major functional subsystem, including: memory, central processing unit (control unit and arithmetic-logic unit), Input/Output devices, and hardware for the support of the Operating System. Study of the implications of computer architecture for systems programming and Operating System design.

CS 414 **Programming Language. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 409. This course is an in-depth study of similarities and differences of modern programming languages such as Pascal, FORTRAN, C, Ada, and LISP. Emphasis is on the implementation of basic language features and in the choice of a language most appropriate for a given problem. Programming assignments will require the use of the unique features of various languages.

CS 415 **Computer Systems Software. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 317 and CS 409. A detailed study of the software components of an operating system and their organization. Review of computer hardware and its support of the functions of an operating system. Introduction to the concept of processes and their interaction in an operating system. Other topics include: deadlock and indefinite postponement, management of real memory, organization and management of virtual memory, scheduling of the CPU, interaction with a file system, and the management of disk drives. An introduction to operating systems security. Case studies from UNIX, MSDOS, VAX/VMS, OS/2.

CS 417 **Object Oriented Applications. 3 Semester Hours.** (Lab fee.)
Prerequisites: CS 317 and CS 318. Advanced topics in C++ programming including the use of standard system and file manipulation functions, dynamic memory allocation, and programming the graphics interface. Methods of interfacing to assembly language routines. Introduction to object oriented programming, and programming in a windows environment.

CS 423 **Computer Graphics. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 317 and MA 308. An introduction to the basic concepts and tools of computer graphics. Discussion of graphic devices and the use of software to control them. Review of coordinate systems, vectors and matrix algebra, and transformations on pictures. Basics of drawing curves and elementary geometric figures. Windowing and clipping. Introduction to three dimensional graphics

CS 441 **Special Topic in Computer Science. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need. Topics which may be covered include special programming languages, compilers, system design, graphics, and special applications.

CS 442 **Special Topic in Computer Science. 2 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need. Topics which may be covered include special programming languages, compilers, system design, graphics, and special applications.

CS 443 **Special Topic in Computer Science. 3 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need. Topics which may be covered include special programming languages, compilers, system design, graphics, and special applications.

CS 451 **Software Engineering. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 318, CS 372; CIS majors also must complete CIS 365, 440 and 450. The course will familiarize the student with the entire software life cycle, spanning from the time of conception of the actual requirements, through the analysis, design, and development of the software. The course will study various methodologies of software engineering; i.e., the analysis and comparison of methods which use sound engineering principles to develop software that is reliable, cost-effective, and easily maintainable. The course will emphasize the concept of a software development team where students work on real-world software development projects to solve software problems for users.

CS 452 **Senior Software Engineering Project. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 417, CS 451, Senior standing, and consent of instructor. This course provides students with the opportunity to apply the knowledge and skills mastered in the computer science discipline through development of complex software projects. Emphasis is placed on the concept of software development teams to create project plans, software requirements, design specifications, test plans, and other written documentation for the selected software project. Student software teams also code, test, and integrate the software according to the requirements and design specifications produced. Technical walk throughs and software demonstrations are required at the completion of various milestones.

CS 452L **Senior Software Engineering Project Lab. 1 Semester Hour.**
Corequisite: CS 452.

CS 460 **Directed Study/Special Computer Science Projects. 1 Semester Hour.**
Prerequisite: 15 semester hours of upper level computer science coursework, and consent of instructor. This course is designed to allow students majoring in computer science to pursue special projects of interest to both the student and instructor. Projects undertaken for this course might well be continuations of projects begun in other courses.

CS 461 **Directed Study/Special Computer Science Project. 2 Semester Hours.**
Prerequisite: 15 semester hours of upper level computer science coursework, and consent of instructor.
This course is designed to allow students majoring in computer science to pursue special projects of interest to both the student and instructor. Projects undertaken for this course might well be continuations of projects begun in other courses.

CS 462 **Directed Study/Special Computer Science Project. 3 Semester Hours.**
Prerequisite: 15 semester hours of upper level computer science coursework, and consent of instructor. This course is designed to allow students majoring in computer science to pursue special projects of interest to both the student and instructor. Projects undertaken for this course might well be continuations of projects begun in other courses.

CS 472 **Algorithm Analysis. 3 Semester Hours.** (Lab fee.)
Prerequisite: MA 308, CS 318, and CS 316 or Fortran programming. An introduction to the classic methods for designing algorithms. The course will study specific problems such as sorting, graph traversals, and matrix multiplication in order to illustrate these methods. The methods studied will include: Divide and Conquer, Back-Tracking, Branch and Bound, and Dynamic Programming. A brief introduction to computational complexity.

CS 474 **Introduction to Formal Language Theory. 3 Semester Hours.** (Lab fee.)
Prerequisite: CS 472 and MA 320. Formal definition of programming languages. Examples of formal grammars, including methods for language parsing. Study of regular and context-free languages. Definition of automata and their relation to formal language definitions. Other topics will include the Chomsky hierarchy, Church-Turing thesis, and theory of computability.

Economics (EC) Courses

EC 310 **Modern Economics. 3 Semester Hours.** (Also listed as SS 310.)
A macro examination of the operation of modern economic systems including price determination, aggregate demand and supply theory, public policy options, and the philosophical foundations of free market and command systems.

EC 311 **Economic Geography. 3 Semester Hours.** (Also listed as GO 311.)
Analysis of the origins, nature and distributions of man's economic activities over the world. Elementary models of economic patterns, processes, and relationships in geographic space are stressed and the relation of these factors to the present position of the nations of the world is emphasized.

EC 320 **Introduction to International Commerce. 3 Semester Hours.** (Also listed as PO 320.)
Examines the international economic system and the challenges faced by multinational corporations in the conduct of international business. Special attention is given to the mechanics of importing and exporting, international finance, and private international law.

EC 321 **Money and Banking. 3 Semester Hours.** (Also listed as SS 321.)
Prerequisite: Principles of Economics. A study of how money, credit, and interest rates affect the level of employment, production, and prices in the economy. Topics of study will include the Federal Reserve System, the operations of commercial banks, credit controls, the theory of interest rate determination, and recent trends in banking.

EC 348 **Labor Economics. 3 Semester Hours.**
Introduction to labor in the economy and the relationships among workers, management, labor organizations, and public policy.

EC 410 **International Finance and Monetary Economics. 3 Semester Hours.**
Prerequisite: Principles of Macro and Micro Ecanomics (or equivalent) and EC 321 Money and Banking (or equivalent). This course provides students with a strong foundation in the theory and practice of international finance and macroeconomics policies, and will explore emerging topics of interest such as a single currency (Euro) in Europe and financial crises in developing countries. The course consists of four parts: foreign exchange markets, the international monetary system, open-economy macroeconomics and international financial markets.

EC 441 **Special Topics in Economics. 3 Semester Hours.**
To be offered on occasion of student demand or need.

EC 460 **Directed Study/Research in Economics. 3 Semester Hours.**
A course designed to allow students an opportunity to perform research/directed studies in economics. Offered at the discretion of the professor with approval of the School Dean.

Education (ED) Courses

ED 300 **Foundations of Education. 3 Semester Hours.**
This survey course is designed for the student who expects to prepare for the teaching profession and includes principles, history, philosopby, and trends in education. Two full days of field experiences are required.

ED 303 **Professional Education Communication. 3 Semester Hours.**
This course is designed to facilitate the acquisition of professional attributes and to improve oral and written communication skills by refining study and research skills, using professional vocabulary, sharing research findings about educational trends and issues, and writing lesson plans. Practice in oral and written language usage will occur through writing and speaking about current educational concerns.

ED 305 **Computers and Media for Teachers. 3 Semester Hours.** (Lab fee.)
This course is designed to assist prospective teachers to acquire knowledge of technology available to enhance the teaching of the curriculum, including the Alabama Course of Study and textbooks currently used in N-12. The focus of this course includes development of basic knowledge and skills in instructional design, selection of appropriate technology, and applications in all areas of the curriculum N-12. This course has a computer laboratory experience.

ED 306 **Computers: A Tool for Teaching. 1 Semester Hour.** (Lab fee.)
Prerequisite: Fundamental computer concepts. This elective course is designed to increase the student's ability to use computers in the classroom. Demonstrations and hands-on experiences will include computers with peripheral devices such as scanners, laser discs, CD-ROM, Presenter Plus, still cameras, modems, and multimedia hardware.

ED 312 **The Child in a Diverse Society. 3 Semester Hours. (Formerly titled as Child and Society.)**
This course is designed to assist prospective teachers to develop understanding and appreciation of various social and ethnic groups and their cultures including the impact of these cultural phenomena on the education process. Field experience is required.

ED 321 **Teaching Language Arts. 3 Semester Hours.**
A course designed to teach appropriate methodology for all areas of language arts with an emphasis on effective teaching of written composition in the elementary grades. Course reflects the integrative nature of the language arts; the need for wholeness; the importance of being able to transfer skills, abilities, and attitudes learned in one context to another. A minimum of seven hours of field experiences in selected elementary schools are required.

ED 323 **Teaching Reading in the Primary Grades. 3 Semester Hours.** (Formerly titled Reading I: Materials and Methods of Teaching Beginning Reading.)
An in-depth study of early literacy development; word identification strategies including phonics, structural analysis, contextual analysis, and whole word methodology; various approaches to reading including the language experience and basal reader approaches and the uses of computers in the reading/writing program. Two and one-half days of field experiences in selected elementary schools is required.

ED 324 **Teaching Mathematics in Primary Grades. 3 Semester Hours.** (Formerly titled Teaching Mathematics to the Young Child.)
A course designed to assist prospective teachers of young children in presenting early mathematical concepts and skills. Application of psychological principles to the teaching and learning of mathematics is included. Field experiences in K-3 math classes in selected elementary schools are required.

ED 361 **Measurement and Management. 3 Semester Hours.**
Prerequisite: Admission to the Teacher Education Program. A course designed to provide future teachers with the skills and attitudes necessary to create a positive learning environment and assist them in being able to develop and implement proper evaluative techniques and give direction to pupil growth and development. One full day (7 hours) of field experience is required.

ED 400 **Reading Strategies. 1 Semester Hour.**
This elective course is designed to prepare in-service teachers to implement current reading strategies in order to raise comprehension skills of students in K-12.

ED 406 **Computers For Teacher Productivity. 1 Semester Hour.** (Lab fee.)
Prerequisite: Fundamental computer concepts. This elective course will focus on increasing the student's ability to use computers as an organizational professional tool to assist in operating a modern classroom. Topics include lesson planning, grade books, test generators, presentation programs, desktop publishing, draw and paint programs, research programs, schedule and calendar programs.

ED 420 **Teaching Science. 3 Semester Hours.** (Lab fee.)
Prerequisite: Admission to the Teacher Education Program. A course designed to provide a study of the science concepts for elementary education. Emphasis is placed on materials and methods, processes of discovery, and the role of children as investigators. Students are required to teach a lab-based lesson in class and conduct two activities. Field experiences are required.

ED 423 **Teaching Social Studies. 3 Semester Hours.**
Prerequisite: Admission to the Teacher Education Program. A presentation of instructional materials, resources and strategies to be used for teaching social science concepts from the disciplines of economics, geography, history, political science, psychology, and sociology to children in the elementary school. Ten (10) hours of volunteer service with social service agencies, including those available to children within the community, are required while enrolled in this course.

ED 490 **Supervision of Interns. 1 Semester Hour.**
This elective course is designed to prepare in-service teachers to be cooperating teachers and supervisors of interns. Topics will include overview of the Teacher Education Program, conceptual framework, curriculum, portfolio, team building strategies, requirements of the internship, and observation and evaluation techniques. Teachers who complete the course, have a master's degree, and three years minimum teaching experience will be eligible to apply for a supervisor's position.

English (EH) Courses

EH 303 **Journalism. 3 Semester Hours.** (Lab fee.) (Will not satisfy literature requirements.) (Designed to fulfill requirements for language arts majors.)
Study and practical experience with journalistic principles, processes, and practices of the news media, utilizing media outlets both in schools and in the community with special emphasis on work with school publications.

EH 304 **Southern Literature. 3 Semester Hours.**
An appreciative and critical study of the body of fine literature written by and about residents of the American South with a concentration on literature in the 20th century. Oral and written student response.

EH 307 **Major Authors I. 3 Semester Hours.**
A survey (Ancient to Renaissance) of contributions to western civilization by the great writers of ancient and medieval times, beginning with the Old Testament and concluding with John Milton. Oral and written student response.

EH 308 **Major Authors II. 3 Semester Hours.**
A survey of contributions to western civilization made by the great writers of the 18th century through the 20th century, beginning with the Enlightenment and ending with contemporary writers. Oral and written student response.

EH 311 **Drama Production. 3 Semester Hours.** (Lab fee.) (Will not satisfy literature requirement. Designed to fulfill requirements for Language Arts majors.)
Study and practical experience in producing, acting, and directing, or otherwise active participation in stage craft in school or community theatre. An opportunity exists for qualified students to study with the Alabama Shakespeare Festival Theatre.

EH 312 **Dramatic Literature. 3 Semester Hours.**
Selected studies in drama, from classical through contemporary, designed to provide a wide familiarity with dramatic literature. Close study of specific plays. Oral and written student response.

EH 314 **19th Century British Studies. 3 Semester Hours.**
A critical study of the major and minor works of the Romantic and Victorian periods. Oral and written analysis.

EH 316 **American Masterpieces. 3 Semester Hours.**
An indepth study of the major works of American literature form the colonial period to the present. Oral and written analysis.

EH 320 **Grammar for Teachers. 3 Semester Hours.** (Will not satisfy literature or composition requirement.)
Prerequisite: Two courses in freshman composition. A teaching-oriented course, using both traditional standard grammar and linguistics-based grammatical systems. Includes some work in elements of composition.

EH 325 **Myth: Ritual and Culture. 3 Semester Hours.**
A study of the basic belief systems of major cultures and their impact on literature and thought. Special emphasis on Greek/Roman and on eastern and western religions.

EH 400 **Creative Writing. 3 Semester Hours.**
Study and practice in the art and skills of creative writing--poetry, prose., and drama

EH 401 **Conflict Management. 3 Semester Hours.** (Will satisfy general speech requirement. Will not satisfy literature requirement.)
A course in interpersonal communication, and group dynamics. Emphasis on conflict, resolution, problem solving and mediation.

EH 413 **Composition for Teachers. 3 Semester Hours.** (For prospective teachers only. Will not satisfy literature or general composition requirements.)
A study of essennal features of composition writing and evaluation. Product-centered as well as process-centered techniques will be examined.

EH 414 **History of the English Language. 3 Semester Hours.** (Will not satisfy literature or composition requirements.)
The development of American English from early and medieval British beginnings to the current linguistic standards and variations. Designed to increase ease of use, vocabulary, and appreciation of the English language. Analytical writing required.

EH 416 **Interpreting the Text. 3 Semester Hours.** (Also listed as RE 416.)
An examination of various ancient, historical, and literary methods of interpreting literature covering the range from ancient ways of reading texts to current poststructuralist approaches. Even though primary emphasis will center on religious texts, there will be considerable attention given to issues and methods that emerged from the realms of the social sciences, literature, and philosophy.

EH 425 **Shakespeare. 3 Semester Hours.**
Designed to provide familiarization with the range of Shakespeare's work as well as close critical appreciation of certain sonnets and plays.

EH 431 **Poetry and Poetics. 3 Semester Hours.**
Prerequisite: Two composition courses and one literature course. A critical study of the major poems in English and American literature with an emphasis on language, forms, themes, poetic theory, analysis, interpretation, and explication. Oral and written analysis.

EH 433 **Fiction. 3 Semester Hours.**
Study of a wide range of fiction. Study is designed both to increase enjoyment of fiction and to develop analytical and evaluative reading skills. Both oral and written response required.

EH 440 **African-American Studies. 3 Semester Hours.**
A study of the major works of African-American writers from the 1700's to the present day. Includes the history of the African-American culture with an emphasis on literature related to the civil rights movement: 1865-1965.

EH 441 **Special Topics in English. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

EH 442 **Special Topics in English. 2 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

EH 443 **Special Topics in English. 3 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

EH 450 **Renaissance Literature 1550-1680. 3 Semester Hours.**
A critical study of the major works of the English Renaissance from Spenser through Milton, (1550-1680) exclusive of Shakespeare. Oral and written analysis.

EH 451 **Restoration/18th Century. 3 Semester Hours.**
A critical study of the major and minor works of the late 17th and 18th century with an emphasis on Dryden, Pope, Swift, and Johnson. Oral and written analysis.

EH 452 **Chaucer and Medieval Literature. 3 Semester Hours.**
A critical study of the major literary works of the middle ages with an emphasis on Chaucer and The Canterbury Tales. Oral and written analysis.

EH 454 **Seminar for Young Adult Literature. 1 Semester Hour.** (Also listed as ED 454.)
This is a survey course of novels for middle and high school readers. Various themes and a diverse representation of authors will be studied.

EH 460 **Directed Study of English. 1 Semester Hour.**
Prerequisite: Consent of instructor. A special research or creative writing course designed to meet specific needs and interest.

EH 461 **Directed Study of English. 2 Semester Hours.**
Prerequisite: Consent of instructor. A special research or creative writing course designed to meet specific needs and interest.

EH 462 **Directed Study of English. 3 Semester Hours.**
Prerequisite: Consent of instructor. A special research or creative writing course designed to meet specific needs and interest.

Elementary Education (EL) Courses

EL 315 **Principles of Teaching Young Children. 3 Semester Hours.**
This is a course designed to teach Elementary Education majors (K-6) appropriate methodology specifically for kindergarten. This course includes developmental characteristics of five-year-old children with emphasis on language and intellectual development. The course will provide theoretical and philosophical bases for selecting materials and methods for a developmentally appropriate kindergarten curriculum. Implications for equipment selection, room arrangements, daily schedules, and learning experiences are discussed. One and one-half days of field experiences are required.

EL 320 **Children's Literature. 3 Semester Hours.**
This is a survey course of current and traditional prose and poetry thought to be applicable to diverse populations of children. Emphasis is placed on the integration of children's literature throughout the curriculum. Field experience is required.

EL 413 **Teaching Reading in Intermediate Grades. 3 Semester Hours.** (Lab fee.) (Formerly titled Materials and Methods of Teaching Reading Comprehension.)
Prerequisite: ED 323 (except Middle Schaal endarsement) and Admission ta the Teacher Educatian Pragram.
Utilization of metacognitive strategies; instructional decision-making; and critical thinking to develop reading comprehension processes, to assist at-risk readers, and to foster the enjoyment of reading through balanced literacy. This is a senior-level course and requires a minimum of 18 hours of teaching on-site in selected elementary schools. In addition, one hour of instructing a child and additional time for planning and reflecting are required in a 3:00-6:00 time frame one afternoon per week for 12 weeks. The student will use a portfolio management system, trade books, computers, current curriculum resources, and teacher-made materials to instruct a child. At the culmination of the clinical cycle, the student will conduct a parent conference

EL 424 **Teaching Mathematics in Intermediate Grades. 3 Semester Hours.** (Lab fee.)
Prerequisite: ED 324 (no prerequisite for middle school endarsement).
A course designed to provide study of the mathematics skills and concepts in grades 4-8 with an emphasis on materials and methods of instruction. In addition, one hour of instructing a child and additional time for planning and reflecting are required in a 3:00-6:00 p.m. time frame one afternoon per week. The student will use a portfolio management system, trade books, computers, current curriculum resources, and teacher-made materials to instruct a child. At the culmination of the clinical cycle, the student will conduct a parent conference. Field experiences in selected elementary schools are required.

EL 472 **Planning and Organizing the Elementary School Curriculum. 3 Semester Hours.**
Prerequisite: Seniar standing and admission to the Teacher Educatian Pragram. This course must be taken the last semester prior ta internship.
The application of a reflective model of teaching which integrates the curriculum through analytical, evaluative, strategic, practical, and communicative skills. Special emphasis will be given to integrating the elementary school curriculum to accommodate the needs of a diverse population. This is a Candidate Assisted Practice Site (C.A.P.S.) course and the field experience requires a minimum of 30 hours of teaching on-site in selected elementary schools.

EL 482 **Internship in Elementary Education. 9 Semester Hours.** (Lab fee.)
Prerequisite: Senior standing and admission to the Teacher Educatian Pragram. Fourteen-week internship program. This culminating experience of the Teacher Education Program provides practical experience in teaching classes in state-accredited schools under the guidance of a cooperating teacher and supervision of a college professor. Seminar attendance is required.

EL 483 **Internship in Elementary Education. 5 Semester Hours.** (Lab fee.)
Seven-week internship program for persons seeking additional certification.

Early Childhood Education (ER) Courses

ER 302 **Theories and Stages in Language Development. 3 Semester Hours.**
This course is designed to familiarize the student with language acquisition and theory including phonology, syntax, semantics and pragmatics with emphasis on the varied home, cultural and school influences in language and literacy development. Field experience required.

ER 310 **Principles of Early Childhood Education. 3 Semester Hours.**
This course, designed for **Early Childhood Education majors (P-3)**, will provide prospective teachers of young children with the historical, theoretical, and practical issues of early childhood education. Emphasis is on early childhood philosophical and sociological foundations, facets of development, principles of learning, trends and issues, and program models. Field experience required.

ER 318 **Literature in Early Childhood Education. 3 Semester Hours.**
This course has a two-fold purpose. As a survey course, it is designed to assist preservice teachers in becoming acquainted with the great wealth of trade books available for today's young children. An equally important purpose is to assist pre-service teachers so they may guide young children toward more creative, insightful utilization of literary materials in a classroom setting. Field experience required.

ER 350 **Administering and Managing Early Childhood Programs. 3 Semester Hours.**
Prerequisite: Admissian ta Teacher Education Pragram, Seniar Standing. This course should be taken the semester prior to internship. It is designed to provide future administrators of childcare programs with a knowledge of the factors that influence quality programs which include: program philosophy, policies and evaluation; assessing, recording, and reporting children's progress; scheduling; nutrition and health services; home and school collaboration; administrative organization and regulations; managing personnel; organizing the physical environment; financing and budgets; and contributing to the profession.

ER 460 **Practicum in Early Childhood Development. 3 Semester Hours.** (Lab fee.)
Prerequisite: Admission to Teacher Education Program and senior standing. This course shauld be taken concurrently with ER 350.
Field experience with directors in child care centers and schools. Assignments are designed to link theory of child care with practice. Students will apply knowledge and skills acquired in early childhood courses.

ER 461 **Practicum in Early Childhood Development. 6 Semester Hours.** (Lab fee.)
Prerequisite: Admission to Teocher Educotion Progrom ond senior standing. This course should be token concurrently with ER 350.
Field experience with directors in child care centers and schools. Assignments are designed to link theory of child care with practice. Students will apply knowledge and skills acquired in early childhood courses.

ER 462 **Practicum in Early Childhood Development. 9 Semester Hours. (Lab fee.)**
Prerequisite: Admission to Teocher Education Program and senior standing. This course should be taken cancurrently with ER 350. Field experience with directors in child care centers and schools. Assignments are designed to link theory of child care with practice. Students will apply knowledge and skills acquired in early childhood courses.

ER 470 **Early Childhood Curriculum. 3 Semester Hours.**
Prerequisite: ED-310, Admission to Teacher Education Program, Seniar Standing. This is the capstone course for early childhood majors and should be taken the semester prior to internship. This course is designed to teach the basic principles and considerations underlying planning a developmentally appropriate curriculum for young children, birth through third grade (P-3), in all areas of development. This course examines the content, methods, and materials appropriate for young children and the teacher's role in organizing and integrating the early childhood curriculum. Implications for equipment selection, room arrangement, daily schedules, and learning experiences are discussed. This is a candidate assisted practice site (C.A.P.S.) course which requires ten full days of field experience in a selected elementary school.

ER 480 **Internship in Early Childhood Education. 9 Semester Hours.** (Lab fee.)
Prerequisite: Senior standing ond admissian ta the Teacher Education Program. Fourteen-week internship program. This culminating experience of the Teacher Education Program provides practical experience in teaching classes in state-accredited schools under the guidance of a cooperating teacher and supervision of a college professor. For students who have not taken a preschool practicum at the community college level, the internship will consist of two weeks in a four-year-old program and twelve weeks in an elementary school. Seminar attendance is required.

ER 481 **Internship in Early Childhood Education. 5 Semester Hours.** (Lab fee.)
Seven-week internship program for persons seeking additional certification

Finance (FIN) Courses

FIN 350 **Managerial Finance. 3 Semester Hours.** (Lab fee.)
Prerequisite: Principles of Accounting, Principles of Economics, and Algebra. A study of the art of money capital management on the level of the firm in an enterprise economy. Topics covered include analysis of financial statements, investment decision making, calculation of the firm's cost of capital.

FIN 355 **General Insurance. 3 Semester Hours.**
A study of fundamental principles and uses of various types of insurance: life, fire, automobile, homeowners, and other casualty and business forms.

FIN 356 **Real Estate. 3 Semester Hours.** (Approved by the Alabama Real Estate Commission as a pre-license course.)
A course designed to give students a broad understanding of the principles of real estate. Instruction includes historical background, freehold estates, leasehold estates, deeds, transferring of interests, financing, appraising, and the Alabama Real Estate License Law.

FIN 357 **Investments. 3 Semester Hours.**
A study and review of consumer money management problems, choices, and decision-making. Topics such as investing in stocks, bonds, mutual funds, commodities, and options will be covered.

General Business (GBA) Courses

GBA 301 **Windows Applications for Business. 3 Semester Hours.** (Lab fee.)
An examination of the many uses for windows applications in the modern business setting. Emphasis given to a "hands on approach" of assessing the usage of personal computers for preparing spreadsheets, managing files, word processing, and graphics.

GBA 305 **Statistical Methods of Business I. 3 Semester Hours.** (Lab fee.)
Prerequisite: College algebra or equivalent. Introduction to descriptive and inductive methods to evaluate data. Coverage will include the calculation of central tendency, tests of hypothesis, probability theory, and sampling.

GBA 306 **Statistical Methods of Business II. 3 Semester Hours.** (Lab fee.)
Prerequisite: GBA 305. An advanced course covering topics such as analysis of variance, time series analysis, simple and multiple regression, and index numbers.

GBA 307 **Quantitative Business Analysis. 3 Semester Hours.** (Lab Fee.)
Focuses on the concepts, processes and problem solving tools related to the quantitative aspects associated with management and operation of a business. Topics include applied linear programming, decision theory, waiting line analysis, regression analysis, forecasting techniques, inventory management and similar topics. In addition to an in-depth study of these subjects, the course will include case studies, optimization techniques, and multi-criteria decision-making applications.

GBA 311 **The Legal Environment of Business. 3 Semester Hours.**
An analysis of the legal, social, and ethical environment of business.

GBA 312 **Law for Accountants. 3 Semester Hours.**
Prerequisite: Legal Environment (BUS 263). A study of law subjects the accountant encounters including contracts, the UCC, business organizations, and accountant liability.

GBA 350 **The International, Legal and Cultural Environment of Business. 3 Semester Hours.**
Prerequisite: None. However, it is recommended that the student complete GBA 311 or PO 350, and GBA 352 before taking GBA 350. This course focuses on the legal framework within which international trade takes place. Within this large framework public and private international law are important as a sub-focus. Areas to be studied include international organizations, environmental law, human rights, economic/commercial law, public and private international law, tax law, comparative law and ethics.

GBA 368 **Industrial and Personnel Psychology. 3 Semester Hours.** (Also listed as PS 368.) (Sometimes taught on a pass/fail basis.)
The application of psychology to industrial organization. Areas of consideration include morale and group processes, supervisory leadership, selection and placement, training, motivation, fatigue, accidents, interviewing and industrial counseling.

GBA 452 **Advanced Application of Technology Management I. 9 Semester hours.**
Academic credit awarded for experiential learning activities that involve the integration of technical knowledge and management science in a workplace setting.

GBA 453 **Advanced Application of Technology Management II. 9 Semester Hours.**
Academic credit awarded for individually directed experiential learning activities that involve the use of problem solving, risk analysis, and decision-making skills and competencies as they relate to the achievement of an operational goal within a selected organization.

GBA 460 **Directed Study/Research in Business. 3 Semester Hours.**
A course designed to allow students an opportunity to perform research or directed studies. This course is offered at the discretion of the professor with the approval by the School Dean.

Gerontology (GE) Courses

GE 320 **Nutrition. 3 Semester Hours. (Also listed as GS 320.)**
This course considers contemporary nutrition from the viewpoint of practical application. Emphasis is on the relationship of nutrition to health, growth, development, and disease prevention.

GE 335 **Adult Psychology. 3 Semester Hours. (Also listed as PS 335).**
Indepth survey of theory, research findings, and methods of obtaining knowledge regarding biological, cognitive, and psychosocial aspects of adult development. Topics include physical change, development of identity and social roles, intellectual changes over the life span, relationships, career and retirement choices, and coping with death and dying. Critical analyses of scientific research designs and methods will be emphasized.

GE 410 **Physiology of Aging. 3 Semester Hours.**
A study of the physiological process of aging and the special problems encountered by such process.

GE 412 **Aging Policy and Programs. 3 Semester Hours.**
The federal, state, and local framework of services and programs for the aging.

GE 471 **Aging in a Mass Society. 3 Semester Hours. (Also listed as SO 471.)**
A study of the aging process, the special problems encountered by the aging and by the institutions of society involved in the care of the aging.

GE 497 **Practicum in Psychology/Sociology/Gerontology. 3 Semester Hours. (Also listed as PS/SO 497.)**
This course provides the student an opportunity to experience the theoretical concepts and knowledge obtained in the classroom. The practicum entails approximately eight hours per week of supervised field experiences in appropriate community agencies, institutions, industrial or research settings, and bi-weekly in-class seminars.

Geography (GO) Courses

GO 309 **North America and Europe. 3 Semester Hours.**
This course examines the physical, historical, cultural, economic, and political characteristics of four geographical regions: the United States, Canada, Western Europe, and Eastern Europe. Except for the United States, there is considerable emphasis on the historical evolution of each region. The five basic themes of geography--location, place, relationships within places, movement, and regions--will also be stressed.

GO 310 **South America, Africa and Asia. 3 Semester Hours.**
This course examines the physical, historical, cultural, economic, and political characteristics of ten geographical regions: South America, Central America, Subsaharan Africa, North Africa, the Middle East, East Asia, South Asia, Southeast Asia, Australia, and the Pacific. There is considerable emphasis on the historical evolution of each region, including patterns of social and political development, cultural diffusion, conflict, and cooperation. The five basic themes of geography--location, place, relationships within places, movement, and regions--are stressed in each region.

GO 311 **Economic Geography. 3 Semester Hours.** (Also listed as EC 311.)
This course examines the origin, types, and distribution of economic activities around the world as well as the theories that explain the location of economic activities. There is some discussion of environmental determinants of economic activities as well as the role of people and cities in a nation's economy. The student should demonstrate a knowledge of the five basic themes of geography as they relate to economic activities: location, place, relationships within places, movement, and regions.

GO 320 **The Geography of North America. 3 Semester Hours.**
This course emphasizes the geography of the United States, Canada, and Mexico. The relationship of the Caribbean region and Central America to North America is also considered. There is an emphasis on location, place, relationships within places, movement, and regions.

GO 332 **Physical Geography. 3 Semester Hours.** (Also listed as GS 332). (Lab fee.)
Corequisite: GO 332L.
Designed to instill greater appreciation and awareness of man's physical environment. Areas of emphasis include mineralogy, petrology, plate tectonics, diastrophism, weathering, mass wasting, agents of erosion, soil layers, and remote sensing.

GO332L **Physical Geography Lab. 1 Semester Hour.**
Corequisite: GO 332.

GO 341 **Biogeography. 3 Semester Hours.** (Also listed as BI 341).
Prerequisite: BI 303,Consent of instructor.
Presents biological aspects of geography. Presents biological aspects of geography. Designed to instill greater appreciation and awareness of man's physical environment and of mechanisms which control the distribution of plants and animals on planet Earth.

General Science (GS) Courses

GS 300 **Introduction to Astronomy. 3 Semester Hours.** (Lab fee.)
Corequisite: GS 300L. Prerequisite: Precalculus algebra. A study of the laws and principles of astronomy, designed to help the student gain an understanding of how the astronomer studies his subject. To help the student appreciate the scope of the universe, discussion will include the solar system, stars, galaxies, and the Big Bang theory.

GS 300L **Introduction to Astronomy Lab. 1 Semester Hour.** (Lab fee.)
Corequisite: GS 300.

GS 301 **Atmospheric Science. 3 Semester Hours.** (Lab fee.)
Corequisite: GS 301L. A survey course in meteorology at the introductory level. This course provides the student with physical explanations for those phenomena collectively called weather.

GS 301L **Atmospheric Science Lab. 1 Semester Hour.**
Corequisite: GS 301.

GS 302 **Earth Science. 3 Semester Hours.** (Lab fee.)
Corequisite: GS 302L. An introduction to the materials that make up the earth's crust and to the various processes responsible for wearing down and shaping the landscape, including an analysis of environmental issues which relate this science to human activities.

GS 302L **Earth Science Lab. 1 Semester Hour.**
Corequisite: GS 302.

GS 320 **Nutrition. 3 Semester Hours.** (Also listed as GE 320.) (This course may be used to satisfy the Health requirement for B.S.Ed. Majors. It will not count as a physical science for B.S. Ed. Physical Education majors or Elementary Education majors.)
This course considers contemporary nutrition from the viewpoint of practical application. Emphasis is on the relationship of nutrition to health, growth, development, and disease prevention.

GS 321 **Environmental Science. 3 Semester Hours.** (Lab fee.)
Corequisite: GS 321L. Emphasis on biological, chemical, and physical aspects of environmental problems, integrating current legal, economic, social, and technical developments.

GS 321L **Environmental Science Lab. 1 Semester Hour.**
Corequisite: GS 321.

GS 330 **Environmental Chemistry. 3 Semester Hours.** (Also listed as CH 330). (Lab fee.)
Study of natural chemical processes of Earth and actual and possible effects of humans on natural chemical systems. Environmental problems such as air and water pollution, ozone depletion, and global warming discussed. Also may include introduction to some methods of environmental analysis and pertinent environmental regulations.

GS 332 **Physical Geography. 3 Semester Hours.** (Also listed as GO 332) (Lab fee.)
Corequisite: GO 332L. Designed to instill greater appreciation and awareness of man's physical environment. Areas of emphasis include mineralogy, petrology, plate tectonics, diastrophism, weathering, mass wasting, agents of erosion, soil layers, and remote sensing.

GS 332L **Physical Geography Lab. 1 Semester Hour.** (Also listed as GO 332L.)
Corequisite: GS 332.

Humanities (HU) Courses

HU 311 **Beginning French Conversation I. 3 Semester Hours.**
Designed for students with no previous expertise in French, this course is intended to enable the student to recognize and speak French in a practical manner. Emphasis is given to language skills necessary for conducting business and successful mobility in French-speaking countries or communities.

HU 312 **Beginning French Conversation II. 3 Semester Hours.**
Prerequisite: HU 311 or equivalent. A continuation of Beginning French Conversation I, this course is intended to enhance the student's ability to recognize and speak French in a practical manner. Emphasis is given to language skills necessary for conducting business and successful mobility in French-speaking countries or communities.

HU 313 **Beginning Spanish Conversation and Culture I. 3 Semester Hours.**
Designed for students with no previous expertise in Spanish, this course is intended to enable the student to recognize and speak Spanish in a practical manner. Emphasis is given to language skills necessary for conducting business and successful mobility in Spanish-speaking countries or communities.

HU 314 **Beginning Spanish Conversation and Culture II. 3 Semester Hours.**
Prerequisite: HU 313 or equivalent. A continuation of Beginning Spanish Conversation I, this course is intended to enhance the student's ability to recognize and speak Spanish in a practical manner. Emphasis is given to language skills necessary for conducting business and successful mobility in Spanish-speaking countries or communities.

HU 315 **Beginning Japanese Language and Culture I. 3 Semester Hours.**
Designed for students with no previous expertise in Japanese. This course is intended to enable the student to recognize and speak basic Japanese and to gain an appreciation of Japanese culture. Emphasis is on language skills necessary for conducting business and for successful mobility in Japanese communities.

HU 316 **Beginning Japanese Language and Culture II. 3 Semester Hours.**
Prerequisite: HU 315 or equivalent. A continuation of Beginning Japanese Language and Culture I. This course is designed to enhance the student's ability to recognize and speak Japanese in a practical manner and to expand the student's knowledge and appreciation of Japanese culture. Emphasis is on the language skills necessary for conducting business and successful mobility in Japanese communities.

HU 321 **Library Research Techniques. 1 Semester Hour.**
This course familiarizes the student with the proper utilization of the basic reference books, abstracts and indexes, the card catalog, and audiovisual equipment. The course also enables the student to master research in their other college subjects.

HU 330 **Landmarks of Civilization. 3 Semester Hours.** (Also listed as HY 330). (Occasional lab time is required.)
Classical World to present. A review of selected examples of man's creative achievements in drama, literature, philosophy, art, and music. This course is designed to demonstrate the integration of human knowledge. Stresses expository writing and critical thinking.

History (HY) Courses

HY 300 **Historiography. 3 Semester Hours.** (Offered Fall Semester.)
This course is intended to provide students with an introduction to the main currents of historical scholarship in the modern era. It will devote particular attention to historicism, Marxism, the approaches derived from the social sciences such as psychohistory, and cliometrics and the new challenges such as post-modernism, post-structuralism, deconstruction, gender history and the new historicism. It will provide the students with a basic idea of the traditional definition of evidence and of how to conceive and structure a research paper. This course is required for all B.A. history majors, who should take it during their first semester at Athens State University.

HY 301 **Social Science Research Methods. 3 Semester Hours.** (Also listed as PO 301 and SS 301.) (Required of B.S.Ed. degree-seeking History and Social Science majors; may not be taken by B.A. degree-seeking history major.) Should be taken at the beginning of the junior year. A course designed to develop the techniques of social science research and to explore varying historical interpretations.

HY 302 **Alabama History. 3 Semester Hours.**
The history of Alabama and its southern heritage from early times to the present. Study of present day problems and an examination of the space age as it has effected Alabama's development are included.

HY 303 **The South In United States History. 3 Semester Hours.**
A study of the post-Reconstruction South. A survey of its historical, economic, and social development as a distinct region of the United States.

HY 304 **Colonial and Revolutionary America. 3 Semester Hours.**
A survey of Anglo-American colonial history, revolutionary developments, and the writing and ratification of the Constitution of the United States.

HY 305 **19th Century America. 3 Semester Hours.**
This course covers the early years of the republic rise of sectionalism, and the forces of industrialization, urbanization, and immigration in United States history. Also explored is westward migration, the quest for social justice including the major reform movements of the century and the interdependence of the people of the United States.

HY 306 **20th Century America. 3 Semester Hours.**
An examination of the political, social, cultural, and economic developments in 20th-century America. Emphasis is placed on the Progressive Movement, role of the United States in world affairs, the Interwar period, and developments after World War II, particularly the Vietnam Era and its aftermath.

HY 307 **American Constitutional Law. 3 Semester Hours.** (Also listed as PO 307.)
An examination of the text of the nation's fundamental law, the Constitutional Convention of 1787, modes of constitutional interpretation, the organization and operation of the federal court system with special emphasis upon the Supreme Court, and the evolution of fundamental constitutional doctrines associated with separation of powers, federalism, taxation, contracts, due process and the takings clause. Students read and analyze excerpts of Supreme Court cases as the principal method for learning. This course is designed to provide a foundation in American constitutionalism for students who contemplate teaching social studies or attending law school.

HY 308 **America and the World. 3 Semester Hours.** (Also listed as PO 308.)
Examines America's foreign relations with the main geographical regions of the world, including issues that affect human survival, such as energy crisis, disarmament, foreign aid, and economic cooperation.

HY 309 **American Civil War and Reconstruction. 3 Semester Hours.**
Causes, events, and results of the Civil War. Also political, economic, and social aspects of reconstruction.

HY 310 **A History of American Religion. 3 Semester Hours.**
The role of religion in America's development is the focus of this course. Each period from European settlement to the triumph of the people over their land at the end of the 19th century and through the tribulations of the two World Wars is examined. Theology is explored only when it directly explains particular historical events.

HY 312 **18th Century Europe. 3 Semester Hours.**
Addresses the economic, social, political, and diplomatic changes that took place in Europe under the Old Regime between 1715 to 1789. Emphasis is placed on events involving the major powers.

HY 313 **Revolutionary Europe. 3 Semester Hours.**
A study of the background and the events of the French Revolution and the Napoleonic Period (1789-1815). Emphasizes the revolutionary wellsprings of the contemporary Western world

HY 314 **19th Century Europe. 3 Semester Hours.**
A study of the social, political, and industrial forces which shaped modern Europe between 1815 and 1914. Particular attention is given to the development of large state and business bureaucracies, the spread of industry and steam transportation, European imperialism, the rise of totalitarian ideologies, and the increase in popular participation in political and social events.

HY 315 **20th Century Europe. 3 Semester Hours.**
The major themes of the course are the rise and demise of totalitarian dictatorships, the continued spread of democracy, the appearance of the welfare state, and the general improvement of the European standard of living since 1918.

HY 322 **England and Britain. 3 Semester Hours.**
A survey of English and British history from 1688 to the present. Encompasses political, constitutional, socioeconomic, cultural, intellectual, and imperial movements.

HY 323 **Modern German History. 3 Semester Hours.**
The course covers the development of Germany from 1815 to the present. Major themes will be Germany's rapid industrialization and associated social problems, Nazism, militarism, the struggle for political unity, democratization, and particularism.

HY 324 **Nazi Germany. 3 Semester Hours.**
The course is designed to provide students with a comprehensive, sophisticated account and analysis of the Nazi period in German history. It will explore issues related to the content and implications of Nazi ideology, the role of Hitler, the complicity of elites such as the Junkers, the military the churches and big business. The course will examine the origins both of the Nazi movement and of the conditions in Germany that led to the movement's rise to power. It will provide a detailed analysis of the consequences of the implementation of Hitler's policies in the forms of genocide, military conquest, and defeat. Permission of the instructor required. Offered every other year.

HY 330 **Landmarks of Civilization. 3 Semester Hours.** (Also listed as HU 330.) (Occasional lab time is required.)
Classical World to present. A review of selected examples of man's creative achievements in drama, literature, philosophy, art, and music. This course is designed to demonstrate the integration of human knowledge. Stresses expository writing and critical thinking.

HY 332 **History of American Business. 3 Semester Hours.**
This course familiarizes the student with the major developments in the history of American business since colonial times. Particular emphasis is given to the evolution the firm and the role of entrepreneurs.

HY 333 **World War II. 3 Semester Hours.**
The course will provide a strategic overview of the war and examine its causes, how new technologies, large government bureaucracies, and the emergence of new world powers effected its outcome.

HY 334 **Middle East. 3 Semester Hours.**
A survey of the historical and cultural characteristics of those countries from Mauritania and Morocco to Afghanistan. Emphasis is placed on the historical development and Arabization of the region, current socio-economic problems, the strategic significance of the area, and its relations to the rest of the world.

HY 336 **A History of Criminal Justice. 3 Semester Hours.** (Also listed as JS 336.)
The subject of this course is the historical development of American criminal justice philosophy, institutions, and practices in the political, cultural, and social context of the Western world and the United States from ancient Hebraic Law to the present. Emphasis is on the contribution and effect of the Enlightenment, Puritanism, American Revolution and Constitution, and Frontier experience on the origins and evolution of the American administration of justice.

HY 342 **Modern Russia. 3 Semester Hours.** (Formerly titled Russia and Eastern Europe.) (Does not satisfy European history requirement for a B.A. in history.)
Examines the history, geography, and current political systems in the Russia.

HY 401 **American History Seminar. 3 Semester Hours.**
The seminar will survey recent literature covering American history and allow the student to pursue a particular topic indepth.

HY 402 **European History Seminar. 3 Semester Hours.**
The seminar will survey recent literature covering modern European economic and political history. Its emphasis will be on major research projects by the students.

HY 414 **Modern Africa. 3 Semester Hours.**
An exploration of sub-Sahara Africa from the beginnings of European Colonization. Emphasis is focused on the effects of World War II on the region including the rise of black nationalism, the region's special mineral offerings and their influence on global developments, the Cold War, and Independence movements particularly in Zimbabwe, Zaire, and South Africa.

HY 441 **Special Topics in History. 1 Semester Hour.**
Prerequisite: Consent of the instructor. To be offered in accordance with student demand or need.

HY 442 **Special Topics in History. 2 Semester Hours.**
Prerequisite: Consent of the instructor. To be offered in accordance with student demand or need.

HY 443 **Special Topics in History. 3 Semester Hours.**
Prerequisite: Consent of the instructor. To be offered in accordance with student demand or need

Instrumentation (IT) Courses

IT 306 **Interfacing Techniques. 4 Semester Hours.** (Also listed as ATE 306) (Lab fee.)
Prerequisite: Microprocessor fundamentals. This course is designed to have students become familiar with interfacing input and output devices to microprocessor and computer interfacing systems. Students should already have some knowledge of microprocessor operation and fundamentals. Students will be involved in individual and team assignments in design, construction, and implementation of interfacing systems.

IT 316 **Applied Digital Design. 4 Semester Hours.** (Also listed as ATE 316) (Lab fee.)
Prerequisite: Introductory digital electronics. This course is designed to familiarize the student with techniques and approaches to digital design. During the course, the tools of digital design will be developed, and then these tolls will be used to investigate problems in digital design with computers and large-scale solutions to digital problems. The course will also cover the use of devices such as programmable logic devices (PLD's) in digital problems and designs.

IT 320 **Math Methods for Instrumentation. 4 Semester Hours.** (Also listed as ATE 420) (Lab fee.)
Prerequisite: Calculus II. This course investigates electro-optical techniques and systems. This will include discussions of: electromagnetic waves, the optical spectrum, the modern theory of light, interaction of light with matter (geometrical and physical optics), optical sources (including LEDs and lasers), optical detectors, and electro-optic systems such as fiber-optic systems and optical data storage. Course content will be based on the text and on lecture notes taken from a variety of sources.

IT 400 **Advanced Analog Instrumentation. 4 Semester Hours.** (Also listed as ATE 400) (Lab fee.)
Prerequisite: IT 320, and PY 302.
This course is designed to familiarize the student with theories and methods used in analyzing and understanding complex electronic systems. Students are expected to be already familiar with basic circuit analysis, basic physics, and the elements of calculus. During the course, the fundamentals of circuit analysis will be reviewed, and then more advanced topics and methods of analysis will be introduced.

IT 401 **Applied Digital Communications. 4 Semester Hours.** (Also listed as ATE 401) (Lab fee.)
Prerequisite: Introductory electronics courses. This course is designed to familiarize the student with the basic systems and concepts used in electronic communications sytems. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and may introduce and employ some basic concepts of calculus.

IT 420 **Electro-optics. 4 Semester Hours.** (Also listed as ATE 420) (Lab fee.)
Prerequisite: IT 320 and PY 302. This course investigates electro-optical techniques and systems. This will include discussions of: electromagnetic waves, the optical spectrum, the modern theory of light, interaction of light with matter (geometrical and physical optics), optical sources (including LEDs and lasers), optical detectors, and electro-optic systems, such as fiber-optic systems and optical data storage. Course content will be based on the text and on lecture notes taken from a variety of sources.

IT 425 **Introduction To Robotics. 4 Semester Hours.** (Also listed as ATE/ATM 425) (Lab fee.)
Prerequisite: Introductory electronics courses. This course is designed to familiarize the student with the basic systems and concepts used in robotic control. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and will employ some basic concepts of calculus. A major component of the course will require students to develop and implement group projects using the RHINO robotic system.

IT 440 **Process Control Instrumentation. 4 Semester Hours.** (Also listed as ATE 440) (Lab fee.)
Prerequisite: Senior standing and consent of instructor. This course is designed to familiarize the student with the basic systems and concepts used in process control. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and will employ some basic concepts of calculus.

IT 441 **Computer Instrumentation. 4 Semester Hours.** (Also listed as ATE 441) (Lab fee.)
Prerequisite: IT 440. This course is designed to familiarize the student with the basic concepts used in computer control and instrumentation. The mathematical techniques used in the course include algebra, geometry, and trigonometry, and will employ some basic concepts of calculus. A major component of the course will require students to develop and implement group projects using the LabVIEW data acquisition system.

IT 461 **Directed Study/Special Instrumentation Project. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

IT 462 **Directed Study/Special Instrumentation Project. 2 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

IT 463 **Directed Study/Special Instrumentation Project. 3 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

IT 464 **Directed Study/Special Instrumentation Project. 4 Semester Hours.**
Prerequisite: Consent of acodemic unit coordinotor and/or instructor. To be offered on occasion of student demand or need.

Justice Studies (JS) Courses

JS 301 **Criminal Justice Process. 3 Semester Hours.**
An overview of the major steps in the processing of a criminal case in the United States, including pretrial, trial and post-conviction phases.

JS 302 **Criminal Law. 3 Semester Hours.** (Also listed as PO 302.)
Definitions of crimes to include the specific elements of various criminal offenses. Defenses to criminal conduct also are discussed.

JS 336 **A History of Criminal Justice. 3 Semester Hours.** (Also listed as HY 336.)
The subject of this course is the historical development of American criminal justice philosophy, institutions, and practices in the political, cultural, and social context of the Western world and the United States from ancient Hebraic Law to the present. Emphasis is on the contribution and effect of the Enlightenment, Puritanism, American Revolution and Constitution, and Frontier experience on the origins and evolution of the American administration of justice.

JS 350 **Introduction to the American Legal System. 3 Semester Hours.** (Also listed as SO 350, PSA 350, and PO 350.)
This course is a review of basic legal doctrines and processes in the U.S. system of jurisprudence. Students are introduced to a wide variety of topics in both civil and criminal justice. Topics include the theory and nature of law as a device for social control, torts, contracts, and ownership of property. The course is structured to provide prelaw majors with limited exposure to the many social conflicts managed by law and courts, and to provide education majors with an overview of law-related topics necessary for civics instruction.

JS 364 **Civil Liberties. 3 Semester Hours.** (Also listed as PO 364.)
Analysis of leading cases and doctrines which balance governmental/societal interests with individual rights across a broad spectrum of social relationships. Explores the constitutional foundations for freedom of expression, due process, and equal protection under the law.

JS 400 **Law Enforcement In America. 3 Semester Hours.**
An in-depth examination of American policing. Includes history, structure, functions, processes, and administrative issues of contemporary law enforcement agencies/ systems.

JS 401 **Adult Corrections. 3 Semester Hours.** (Also listed as SO 401.)
Prerequisite: Introduction to Sociology. Socioeconomic facets of crime and principles and practices of delinquency, probation and parole, interaction (environmental and attitudinal) of persons from sentencing to return to society will be stressed.

JS 445 **Contemporary Issues Seminar in Public Safety. 3 Semester Hours.** (Also listed as PSA 445.)
An examination of contemporary topics that profoundly impact all public safety agencies. Subjects addressed include laws, court rulings, and regulatory agency requirements. Utilizes a research seminar format.

JS 452 **Advanced Criminology. 3 Semester Hours.** (Also listed as SO 452.)
Prerequisite: Introduction to Sociology. Analysis of social causal process and theories by which individuals become criminals and evaluation of the effectiveness of the criminal justice system in returning helpful, contributing citizens back to society. Historical and contemporary orientation.

JS 453 **Juvenile Delinquency. 3 Semester Hours.** (Also listed as SO 453.)
Prerequisite: Introduction to Sociology. The course applies a sociological approach to analyzing juvenile delinquency. While recognizing a variety of the causes (physiological, psychological, and social) of juvenile delinquency, this approach focuses on the impact of societal conditions on juvenile delinquency. The course combines a theoretical and an empirical emphasis.

JS 455 **Public Administration Ethics. 3 Semester Hours.** (Also listed as PO 455 and PSA 455). (Formerly titled Ethics for Public Administrators.)
Examines ethical issues encountered by administrators of government agencies. More specifically, this course explores the application of codes of ethics, theories of ethical decision-making, and ethical principles affecting public administration.

JS 460 **Directed Studies in Justice Studies. 1 Semester Hour.** Consent of instructor required.

JS 462 **Directed Studies in Justice Studies. 2 Semester Hours.** Consent of instructor required.

JS 463 **Directed Studies in Justice Studies. 3 Semester Hours.** Consent of instructor required.

JS 465 **Senior Research Project. 3 Semester Hours.** (Also listed as PO/PSA 465.)
Prerequisite: Justice Studies major and consent of instructor. Provides supervised experiences in appropriate criminal justice agencies. This course includes intensive routine seminars with discussion and evaluation of experiences in the field.

Mathematics (MA) Courses

MA 301 **Pre-Calculus Algebra. 3 Semester Hours.** (Lab fee.)
Prerequisite: Two years of high school algebra; geometry recommended.
For students preparing to take Calculus sequence. Topics covered include real number system, simplification of algebraic expressions, functions and graphs, rational and polynomial functions, exponential and logarithmic functions, conic sections, binomial theorem, finite induction, arithmetic and geometric progressions, and business and behavioral science applied word problems.

MA 302 **Pre-Calculus Trigonometry. 3 Semester Hours.** (Lab fee.)
Prerequisite: MA 301 or equivalent. For students preparing to take Calculus sequence. Includes set notation, concept of functions, extended study of geometric and trigonometric functions, analytic trigonometric functions, radian measure, computation and numerical application.

MA 303 **Calculus I. 3 Semester Hours.** (Lab fee.)
Prerequisite: MA 301 or equivalent; recommend MA 302 or equivalent. Introduction to limits plus techniques and applications of differential calculus.

MA 304 **Calculus II. 3 Semester Hours.** (Lab fee.)
Prerequisite: MA 302 or equivalent and MA 303. Continuation of MA 303 covering integral calculus.

MA 305 **Calculus III. 3 Semester Hours.** (Lab fee.)
Prerequisite: MA 304. Continuation of MA 303, 304 covering advanced integral techniques, L'Hospital's Rule, infinite sequences and series.

MA 306 **Calculus IV. 3 Semester Hours.** (Lab fee.)
Prerequisite: MA 305. Continuation of MA 303, 304 covering conics, parametric and polar equations, vectors, functions of several variables, and multiple integration.

MA 308 **Discrete Mathematics. 3 Semester Hours.**
Prerequisite: MA 301 or equivalent. Introduces topics in mathematical models, mathematical reasoning, sets, relations and functions, Boolean algebra, special data structures, and special algebras. Application of these topics teaches nature and purpose of mathematical models, algebra of logic, sets and groups, and relationships between mathematics and Computer Science.

MA 309 **Business Calculus. 3 Semester Hours.** (Cannot be used to satisfy requirement for upper-level mathematics elective.) (Lab fee.)
Prerequisite: Precalculus algebra. Covers basic business applications using calculus, including functions, graphs and limits as encountered in professional business environments. Some solutions require use of computer.

MA 310 **Matrices and Linear Algebra. 3 Semester Hours.**
Prerequisite: MA 304. Matrices, systems of equations, determinants, vector spaces, and applications.

MA 311 **Advanced Mathematics for Teachers. 3 Semester Hours.** (Lab fee.) Cannot be used to satisfy requirement for upper-level mathematics elective.)
Prerequisite: At least one college-level mathematics course. Develops greater mathematical skills and insight. Introduces student to topics in numeration systems, elementary number theory, problem solving, introduction to probability theory, statistics, and geometry.

MA 314 **College Geometry. 3 Semester Hours.**
Prerequisite: MA 304. Foundations of Euclidean geometry to include geometric construction and properties of regular polygons and circles. Based on logical statements and formal proofs.

MA 316 **Vector Analysis. 3 Semester Hours.**
Prerequisite: MA 306. Vector algebra, vector operations, vector functions, scalar and vector fields, divergence, curl, Laplacian, line and surface integrals, orthogonal curvilinear coordinates, divergence theorem, Stoke's and Green's theories.

MA 320 **Modern Algebra. 3 Semester Hours.**
Prerequisite: MA 308 and 310 or permission of instructor. Axiom approach, group fundamental properties, introduction to rings, fields and ideals. Emphasis on proofs.

MA 330 **Advanced Mathematical Software. 3 Semester Hours.** (Cannot be used to satisfy requirement for upper-level mathematics elective.)
Prerequisite: MA 303, 304, 305, 306 or equivalent calculus sequence, and knowledge of computer programming. This class teaches the use of mathematical software (MAPLE). Emphasis is placed both on solving problems from the calculus and appropriately presenting the results. Techniques will be taught which will ultimately increase productivity in the workplace and provide insight for research.

MA 331 **Applied Statistics and Probability I. 3 Semester Hours.**
Prerequisite: MA 303, 304 (or equivalent), and MA 308 (or permission of instructor). Topics include descriptive statistics, basic probability theory, random variables, discrete and continuous distributions, sampling theory, and inferential statistics to include estimation and hypothesis testing. Emphasis will be in both the application and the mathematical underpinnings of these topics.

MA 401 **Complex Analysis. 3 Semester Hours.**
Prerequisite: MA 306. Covers complex numbers, analytic functions and integrals, conformal mapping, sequences and series, and integration by the method of residues.

MA 421 **Differential Equations. 3 Semester Hours.** (Lab fee.)
Prerequisite: MA 306 or equivalent. Theory and techniques of solution for ordinary differential equations with applied examples from different scientific disciplines. Introduction to Laplace transforms.

MA 423 **Numerical Analysis. 3 Semester Hours.** (Computer programming required.) (Lab fee.)
Prerequisite: MA 306, 310. Introduction to numerical methods for interpolation, evaluating roots of polynomials, systems of equations, integration, differentiation, differential equations, and approximation and error analyses.

MA 428 **Partial Differential Equations. 3 Semester Hours.**
Prerequisite: MA 421. Fourier series, classical PDE's (heat, wave and Laplace's equations), and numerical methods.

MA 431 **Applied Statistics and Probability II. 3 Semester Hours.**
Prerequisite: MA 331 and completion of a 12-hour calculus sequence. A continuation of MA 331. Topics include analysis of variance, bivariate analysis, association, and prediction, theory of testing and inference, and other advanced statistical and probability concept

MA 441 **Special Topics in Mathematics. 3 Semester Hours.**
Prerequisite: MA 304. Considers topics in abstract algebra, theory of equations, and various mathematical applications.

MA 445 **Mathematical Modeling and Simulation. 3 Semester Hours.**
Prerequisite: MA 310, 421 or equivalent. Covers techniques in vector rotation of three-space coordinates, Perron's eigenvalue theorem, date fitting by the normalization processes for multivariable function approximation, Bezier representation of polynomials for "real-time", computer graphic application, and other topics.

MA 450 **Advanced Calculus I. 3 Semester Hours.**
Prerequisite: MA 306, 310. Vector operations and spaces, linear transformations, functions of several variables, limits, continuity, total differential, Jacobian, general chain rule, implicit functions, higher order derivatives, change of variables in integrals.

MA 451 **Advanced Calculus II. 3 Semester Hours.**
Prerequisite: MA 450. A continuation of MA 450 with various applications of multivariate calculus.

MA 452 **Real Analysis. 3 Semester Hours.**
Prerequisite: MA 310, 320, 421. Covers logic and the foundation for differential and integral calculus of a function of one variable.

MA 461 **Directed Study/Research in Mathematics. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

MA 462 **Directed Study/Research in Mathematics. 2 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

MA 463 **Directed Study/Research in Mathematics. 3 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

MA 470 **Senior Mathematics Seminar. 3 Semester Hours.**
Prerequisite: MA 320, 421. Review of mathematical ideas in calculus, linear algebra, differential equations, abstract algebra, and other selected topics.

Management (MG) Courses

MG 302 **Management Information Systems. 3 Semester Hours.** (Lab fee.)
Prerequisite: Windows applications course (CIS 146). An examination of the role of information systems in organizations and how they relate to the objectives and structure of an organization. Emphasis is given to providing a broad overview of the information system management function.

MG 303 **Management Decision Support Systems. 3 Semester Hours.** (Also listed as AC 303.) (Lab fee.)
Prerequisite: Windows applications course (CIS 146). An analysis of the nature of the decision making process and an examination of support systems. Instruction will emphasize an advanced application of spreadsheet and database management software.

MG 320 **Organizational Communication and Leadership. 3 Semester Hours. (Also listed as ATC 320)** (Lab fee.)
The purpose of this course is to enhance the student's ability to communicate effectively and efficiently in the workplace. Writing, listening, reading, and speaking are emphasized in assignments, exercises, and projects. Skills of leadership, group collaboration, and intercultural communication are stressed in assignments and demonstrated in projects.

MG 346 **Principles of Management. 3 Semester Hours.**
An introductory course that explores both the underlying theory and the practical application of management practices and organizational development. In addition to the basic management functions, the course deals with ethical questions, international competition, and other issues stemming from management's relationship with its increasingly complex legal, social, and competitive environment.

MG 349 **Human Resources Management. 3 Semester Hours.** (Also listed as PSA 349) (Lab fee.)
A study of the technical functions of HRM. Emphasis is on their application to programs that foster employee commitment to objectives in a competitive, global economy.

MG 351 **Labor/Management Relations. 3 Semester Hours.**
An examination of managerial issues affecting development of industrial and labor relations policy. Topics examined include impact of public policy, negotiation, and administration of collective bargaining agreements, the NLRB, and arbitration cases.

MG 352 **International Business. 3 Semester Hours.** (Lab fee.)
An analysis of the cultural, economic, ethical, legal, and social environment of the global market.

MG 353 **Project Management. 3 Semester Hours.** (Lab fee.)
An examination of the use of critical path method (CPM)and Program Evaluation Review Technique (PERT) on project planning and control.

MG 375 **Organizational Behavior and Teambuilding . 3 Semester Hours.** (Also listed as ATC 375, PS 375 and PSA 375.) (Lab fee.) (Sometimes taught on a pass/fail basis.)
This course is designed to enhance class members' understanding of the causes and consequences of the behavior of people within the context of organizations, with emphasis on teamwork. To accomplish the learning goals for the course, varying instructional methodologies will be employed including lecture, and assigned readings from the text, journal articles, and the web. A significant amount of class time will be spent in experiential exercises.

MG 377 **Public Administration. 3 Semester Hours.** (Also listed as PO 377 and PSA 377.)
An examination of the major issues and concepts associated with management of governmental agencies. Topics include personnel management, financial management and budgets, political and legal environments, employee rights and responsibilities, program evaluation, and community relations.

MG 390 **Production/Operations Management. 3 Semester Hours.** (Lab fee.)
Prerequisite: MG 346. Production and Operations Management examines manufacturing and services industries and the multitude of activities needed to produce or process goods and services in the private and public sectors. Examines the problems of facilities layout, plant location, statistical quality control, process control, and various models utilized in these areas.

MG 410 **Employment Law for Business. 3 Semester Hours.**
Prerequisite: Legal Environment (BUS 263). An applied study of significant legal issues in labor and employment law including labor-management relations, wage and hour laws, safety and health laws, retirement, welfare and privacy laws that prepare future managers, supervisors, and business owners for responsibilities in management-employee relations.

MG 412 **Case Study: International Business Diplomacy. 3 Semester Hours.**
Prerequisite: None. However, it is recommended that MG 352 and EC 320 be completed before taking MG 412. This is the capstone course for the international business minor. It focuses on two broad areas: case studies in political, legal, economic, and cultural areas and the in-depth study of multicultural diversity. Areas to be covered include religion, family, time, gender, race, ethnicity, aesthetics, power distance, individual vs. collective, masculine vs. feminine and uncertainty avoidance.

MG 415 **Technical Risk Management. 3 Semester Hours.** (Lab fee.)
Prerequisite: Statistics (BUS 271). Examines the use of the scientific method and statistical analysis to minimize the risk exposure in management decision making, particularly when bringing high-technology products to the market place within allotted time and financial specifications.

MG 416 **Entrepreneurship. 3 Semester Hours.** (Lab fee.)
Prerequisite: Accounting I, CIS 146, MG 346, and MK 331. In this course, students bring their knowledge of management, marketing, accounting and microcomputer applications to bear on the problems of planning and operating a small business. Student teams research, prepare, and present complete business plans including proforma financial statements for startup ventures. Market research, site selection, pricing, promotion, and financial analysis for the small firm are among the topics stressed.

MG 417 **Management of Change. 3 Semester Hours.** (Lab fee.)
Examines the various approaches to organizational change, the resistance and driving forces for change, and the implementation and control of change in organizations.

MG 418 **Management of Technology. 3 Semester Hours.** (Lab fee.)
A case study approach to the integration of technical knowledge with management science.

MG 419 **Technology Transfer and Commercialization. 3 Semester Hours.**
Technology Transfer and Commercialization offers an overview of how government-sponsored technology and expertise can be transferred into commercial and private sectors to maintain business competitiveness. Specific case studies are employed to illustrate the effectiveness and importance of technology transfer to global commerce.

MG 420 **Business Policy. 3 Semester Hours.** (Lab fee.) (Student should schedule this course during one of the last two semesters of their degree program.)
Prerequisite: Senior standing, FIN 350, MG 346, MK 331. A Capstone Course which examines the interrelations of the various business functions from the viewpoint of middle management's decision process. Heavy emphasis on both oral and written case study analysis. NOTE: Student must earn a minimum grade of "C" in this course in order to graduate with a major in accounting, management, human resources management, or the management of technology.

MG 441 **Special Topics in Management. 3 Semester Hours.**
To be offered on occasion of student demand or need.

MG 449 **Advanced Human Resource Management. 3 Semester Hours.**
Prerequisite: MG 349. This course will examine the functions of Human Resource Management by investigating both the theoretical advance of HRM, and the practical application of these functions as they apply to the manager's responsibility in the global marketplace.

MG 460 **Directed Study/Research in Management. 3 Semester Hours.**
A course designed to allow students an opportunity to perform research/directed studies in management. Offered at the discretion of the professor with approval of the School Dean.

MG 491 **Practicum in the Management of Technology I. 3 Semester Hours.**
Prerequisites: MG 415, 417, and 418. Supervised experience with, observation of, and participation in the application of management of technology concepts and practices in an organizational setting.

MG 492 **Practicum in the Management of Technology II. 3 Semester Hours.**
Prerequisite: MG 491. Individually designed directed experience in management of technology concepts and practices in a selected organizational setting. The use of problem solving, risk analysis, and decision-making skills and competencies must be demonstrated in a project completed by the student that involves assisting the selected organization in achieving an operational objective identified by the cooperating organization.

Marketing (MK) Courses

MK 331 **Marketing Principles. 3 Semester Hours.**
Prerequisite: Principles of Economics. A study of the forces operating, institutions employed, and methods followed in the flow of goods and services from production to consumption.

MK 333 **Advertising. 3 Semester Hours.**
Prerequisite: Marketing Principles. A study of the principles of advertising, types of advertising media, and analyzing problems of advertising encountered in business.

MK 336 **Consumer Behavior. 3 Semester Hours.**
Prerequisite: Marketing Principles. A study of the buying habits and motives involved in the purchase of economic goods and services. Emphasis is on the decision processes that precede and determine consumer behavior.

MK 431 **Marketing Research. 3 Semester Hours.**
Prerequisites: MK 331, Statistics (BUS 271). A study of research methods and procedures as they apply to marketing operations. This course includes the information sources available to marketing researchers and the design and analysis of research projects concerned with obtaining primary information.

MK 432 **Retailing. 3 Semester Hours.**
Prerequisite: MK 331. Principles and methods of store location and layout, promotion, buying, pricing, personnel management, credit, and stock control.

MK 433 **Marketing Strategies and Policies. 3 Semester Hours.**
Prerequisite: MK 331. Examines various policies and problems requiring decision by marketing management. Particular emphasis will be given to advertising and promotional strategies.

Physical Education (HPE) Courses

HPE 301 **Theory of Coaching and Officiating. 3 Semester Hours.** (Recommended for Physical Education majors only.)
A course designed to familiarize students with officiating techniques, coaching principles, basic coaching philosophies, effective method- ology, motor skills, and strategic and theoretical elements leading to the development of championship teams. Field experience is required.

HPE 312 **Varsity Athletics. 1 Semester Hours.**
Prerequisite: By permission only. Participation in college intercollegiate sports.

HPE 313 **Varsity Athletics. 1 Semester Hours.**
Prerequisite: By permission only. Participation in college intercollegiate sports.

HPE 320 **Analysis and Teaching of Team Sports. 3 Semester Hours.** (Recommended for Physical Education majors only.)
A course dealing with analysis and teaching of movement patterns involved in the performance of volleyball, basketball, and soccer. Practical experience in writing lesson plans, designing conditioning programs, officiating, and designing strategies used in competition. Field experience is required.

HPE 321 **Analysis and Teaching of Rhythms and Dance. 3 Semester Hours.** (Recommended for Physical Education majors only.)
A course dealing with the analysis and movement involved in the performance of rhythmic and dance activities. Practical experiences in conditioning, skill improvement, and movement analysis are included. Field experience is required.

HPE 322 **Analysis and Teaching of Individual Sports. 3 Semester Hours.** (Recommended for Physical Education majors only.)
A course dealing with the analysis and teaching of movement patterns involved in the performance of badminton, golf, and tennis. Practical experience writing lesson plans, designing conditioning programs, officiating, and designing strategies used in competition. Field experience is required.

HPE 323 **Aquatics and Advanced Lifesaving. 3 Semester Hours.** (Recommended for Physical Education majors, wellness majors, or students seeking an additional health endorsement.)
A course dealing with the analysis of movement involved in the performance of a variety of aquatics and lifesaving techniques. This course provides training in the procedures of administering first aid and CPR. American Red Cross Certification is awarded for the successful completion of this course.

HPE 325 **Kinesiology. 3 Semester Hours.** (Recommended for Physical Education majors only or approval of instructor.)
Prerequisite: Anatomy and Physiology. Anatomical, mechanical, and functional aspects of human movement are studied with emphasis on analysis of joint actions, mechanical principles, and laws of motion as they apply to efficient movement.

HPE 326 **History and Principles of Physical Education. 3 Semester Hours.** (Recommended for Physical Education majors only.)
A course designed to provide the professional student an overview of the body of knowledge encompassing the discipline of physical education. Historical, psychological, biological, and sociological foundations of human movement are studied. Field experience is required.

HPE 327 **Physiology of Exercise. 3 Semester Hours.** (Recommended for Physical Education majors only or approval of instructor.)
Prerequisite: Anatomy and Physiology. A course designed to provide the student an opportunity to develop a better understanding of the effects of exercise on body systems, factors affecting performance, and the role of physical education in health-related fitness.

HPE 333 **Care and Prevention of Athletic Injuries. 3 Semester Hours.** (Lab fee.) (Recommended for Physical Education majors only or approval of instructor.)
A course designed to familiarize students with the most prevalent athletic injuries, their anatomical explanation and physiological complications, and treatment of such injuries.

HPE 340 **Medical and Biological Visualization. 3 Semester Hours.** (Lab fee.) (Also listed as BI 340 and AR 340.)
This course helps students develop perceptual motor ability (the ability to deal with objects through visualization.) Perceptual motor ability has long been an indicator of success in fields like dentistry, medicine, architecture, art and 3-D computerization. The course will teach the visualization of anatomical and biological structures, to survey the common components of graduate courses in medical and biological illustration for the purpose of preparing pre-health and/or art undergraduates to express thinking through diagrams, sculpture, illustrations and computer graphics.

HPE 350 **Adapted Physical Education and Sports. 3 Semester Hours.** (Recommended for Physical Education majors only or approval of instructor.)
A course designed to provide students with the information necessary to understand, evaluate, and develop programs of physical activities to meet the special needs, interests, and abilities of exceptional children and youth. Class will interact with exceptional students at field sites.

HPE 354 **Contemporary Health and Physical Education Activities. 3 Semester Hours.**
A course dealing with personal/community health and physical education designed to assist students in developing a broad understanding of their obligation to themselves and society in matters of health, physical education, physical fitness, and physical activities. Appropriate physical education activities will be included.

HPE 355 **Health-Related Fitness and Nutrition. 3 Semester Hours.** (Recommended for Physical Education majors only or approval of instructor.)
A course dealing with the development of cardiovascular endurance, muscle strength, flexibility, nutrition, and appropriate body composition as these elements contribute to health-related fitness. The course also provides the student with the opportunity to participate in an exercise program which emphasizes cardiovascular endurance, muscular strength, and flexibility.

HPE 400 **Organization and Administration of Physical Education. 3 Semester Hours.** (Recommended for Physical Education majors only.)
A course designed to provide the professional student theoretical and practical information about specific aspects of the process of organizing and administering physical education and athletic programs. Field experience is required.

HPE 401 **Measurement and Evaluation of Physical Education. 3 Semester Hours.**
Prerequisite: Requires admission to the Teacher Education Program. Included in this course is the study of theory of measurement in physical education, the selection and administration of appropriate tests, and the interpretation of test results utilizing fundamentally sound statistical procedures. Field experience is required.

HPE 412 **Senior Varsity Athletics. 1 Semester Hours.**
Prerequisite: By permission only. Participation in college intercollegiate sports.

HPE 413 **Senior Varsity Athletics. 1 Semester Hours.**
Prerequisite: By permission only. Participation in college intercollegiate sports.

HPE 420 **Teaching Health in the High School. 3 Semester Hours. (Recommended for students seeking an additional health endorsement *Pending approval.)**
Prerequisite: Requires admission to the Teacher Educatian Pragram. **Emphasis is placed on approved teaching techniques, theories of learning, characteristics and health risks of high school students, planning for instruction, instructional management, and selection of learning activities. Lesson planning and unit construction are an important part of this course. Field experience is required.**

HPE 427 **Principles of Exercise Prescription and Assessment. 3 Semester Hours.** (Lab fee.) (Recommended for Physical Education Majors only or approval of instructor.)
Prerequisites: Biology, Human Anatomy and Physiology, Physiology of Exercise. A course designed to provide the student with an opportunity to increase knowledge and practical experiences in exercise prescription and health fitness assessment. The course will emphasize strategies and procedures for the implementation of human performance concepts, including the design of health fitness and exercise programs for healthy individuals as well as for individuals with health complications.

HPE 430 **Teaching Physical Education in the Elementary School. 3 Semester Hours.** (Lab fee.) (Recommended for Physical Education majors only.)
Prerequisite: Three af the fallowing analysis courses: PE 320, 321, 322, 323 and admission to the Teacher Educotion Program.
A course designed to study source materials, planning and organizing instruction, selection of suitable activities, and preparation of teaching units for physical education in the elementary school. Field experience is required.

HPE 431 **Motor Development and Physical Activities. 3 Semester Hours.**
Prerequisite: Child Psychology ar equivolent. The influence of various tissues (i.e. muscle, bone, adipose), and coordinated neural function are central concerns of this course. Physical activities intended to enhance the physical and motor growth and development of young children are examined. The relationship of physical and motor growth and development to all other aspects of human development is studied.

HPE 440 **Teaching Physical Education in the High School. 3 Semester Hours.** (Lab fee.)
Prerequisite: Three af the following onolysis courses: PE 320, 321, 322, 323. Requires admissian to the Teacher Educotion Progrom. Emphasis is placed on approved teaching techniques, theories of learning, characteristics of high school students, planning for instruction, instructional management, and selection of learning activities. Lesson planning and unit construction are an important part of this course. Field experience is required.

HPE 460 **Directed Study/Research in Physical Education. 1-3 Semester Hours.**
To be offered on occasion of student need and may be taken 1 to 3 times.

HPE 480 **Wellness Internship in Physical Education. 9 Semester Hours.** (Lab fee.)
To be offered as an internship. Students are supervised by college faculty at community sites for fourteen weeks.

HPE 488 **Internship in N-12. 9 Semester Hours.** (Lab fee.)
Prerequisite: Senior stonding ond admission to the Teocher Educotion Program. Fourteen-week internship program for physical education with seven weeks in an elementary school and seven weeks in a secondary school. This culminating experience of the Teacher Education Program provides practical experience in teaching classes in state-accredited schools under the guidance of a cooperating teacher and supervision of a college professor. Seminar attendance is required.

HPE 484 **Internship in Health Education. 5 Semester Hours. (Lab fee.)**
Prerequisite: Seniar standing and Admission to the Teocher Educotion Program. Seven week internship program for health education in grades 7-12.

Philosophy (PH) Courses

PH 300 **Moral Values in Today's Society. 3 Semester Hours.** (Also listed as SO 300.)
This course examines the moral values of various societies as well as those of individual moral philosophers past and present to see how they legitimate their views of what constitutes a good and desirable life

PH 301 **Introduction to Philosophy. 3 Semester Hours.**
An examination and evaluation of various answers to basic problems of philosophy.

PH 312 **Logic. 3 Semester Hours.**
A course intended to help the student develop skill in detecting, identifying, and analyzing fallacious reasoning and implication in the mass media, literature, advertising, theater, philosophy, and religion.

PH 321 **History of Philosophy I. 3 Semester Hours.**
A critical survey of the thought of major western philosophers from Thales to Descartes.

PH 322 **History of Philosophy II. 3 Semester Hours.**
A critical survey of the thought of western philosophers from Descartes to the present time

PH 325 **Philosophy of Religion. 3 Semester Hours.** (Also listed as RE 325.)
A philosophical study of the grounds of religious belief and practice, the relationship of man to God and its implications for morality, and the belief in life after death Special attention is given to the impact of science upon religion.

PH 401 **Elements of Skeptical, Critical, and Logical Thinking. 3 Semester Hours.** (Also listed as PS 401.)
Prerequisite: General Psychology. A course that encourages thinking skills and is divided into three domains. Skeptical thinking will be entertained first, followed by critical thinking or informal logic, with formal logic being addressed last. Skeptical thinking will be taught using "Occam's razor," and informal logic will be studied by analyzing cognitive biases and cognitive fallacies. Formal logic will be learned through the use of categorical sentences, truth functions, and inductive and deductive reasoning

PH 441 **Special Topics in Philosophy. 1 Semester Hour.**
To be offered on occasion of student demand or need.

PH 442 **Special Topics io Philosophy. 2 Semester Hours.**
To be offered on occasion of student demand or need.

PH 443 **Special Topics in Philosophy. 3 Semester Hours.**
To be offered on occasion of student demand or need.

PH 461 **Directed Study/Research in Philosophy. 1 Semester Hour.** (Open only to superior students who have had at least fifteen hours of philosophy in the classroom.) (May be repeated for up to ten additional hours of credit.)
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need. The student studies in an area of his or her particular interest approved by the instructor.

PH 462 **Directed Study/Research in Philosophy. 2 Semester Hours.** (May be repeated for up to ten additional hours of credit.) (Open only to superior students who have had at least fifteen hours of philosophy in the classroom.)
Prerequisite: Consent of instructor. The student studies in an area of his or her particular interest approved by the instructor.

PH 463 **Directed Study/Research io Philosophy. 2 Semester Hours.** (Open only to superior students who have had at least fifteen hours of philosophy in the classroom.)
Prerequisite: Consent of instructor. The student studies in an area of his or her particular ioterest approved by the instructor.

Political Science (PO) Courses

PO 301 **Social Science Research Methods. 3 Semester Hours.** (Also listed as SS 301 and HY 301.) This course is designed to develop the techniques of social science research and to explore varying historical interpretations.

PO 302 **Crimioal Law. 3 Semester Hours.** (Also listed as JS 302.)
Definitions of crimes to include the specific elements of various criminal offenses. Defenses to criminal conduct also are discussed.

PO 303 **Comparative State and Local Government. 3 Semester Hours.**
A comparative examination of the structures, operation, and contemporary issues with state and local government throughout the United States.

PO 304 **Problems of American Governmeot. 3 Semester Hours.**
This course examines numerous institutional and policy problems facing the American political system as well as solutions to these problems proposed by government. This course also looks at different political systems such as communism, socialism, and parliamentary democracy in order to put American government in a comparative perspective.

PO 305 **Alabama Government. 3 Semester Hours.**
An examination of the structure and operation of state and local governments and the political process in Alabama.

PO 306 **Elections aod Public Opinions. 3 Semester Hours.**
This course examines the role and effects of elections and public opinion on American political institutions.

PO 307 **American Coostitutional Law. 3 Semester Hours.** (Also listed as HY 307.)
An examination of the text of the nation's fundamental law, the Constitutional Convention of 1787, modes of constitutional interpretation, the organization and operation of the federal court system with special emphasis upon the Supreme Court, and the evolution of fundamental constitutional doctrines associated with separation of powers, federalism, taxation, contracts, due process, and the takings clause. Students read and analyze excerpts of Supreme Court cases as the principal method for learning. This course is designed to provide a foundation io American constitutionalism for students who contemplate teaching social studies or attending law school.

PO 308 **America and the World. 3 Semester Hours.** (Also listed as HY 308.)
This course examines America's foreign relations with the main geographical regions of the world since 1775 as well as American policy toward disarmament, foreign aid, economic cooperation, and other contemporary issues. The institutions involved in the making of foreign policy also are discussed.

PO 320 **Introductioo to International Commerce. 3 Semester Hours.** (Also listed as EC 320.)
This course examines the international economic system and the management challenges faced by multinational corporations in the cooduct of ioternational business. Special attention is given to the mechanics of importing and exporting, internatiooal finance, and private international law.

PO 341 **Statistics With Advanced Topics in Behavioral Science. 3 Semester Hours.** (Also listed as PS 341 and SO 341.)
Prerequisite: Psychology, sociology, or political science mojor or minor or permission, Pre-Calculus Algebro or Finite Mathematics.
Analysis of behavioral science data is considered by examioing both descriptive statistics and inferential statistics. Advanced inferential topics will be studied for preparation for graduate school.

PO 342 **Methods of Behavioral Science Research. 3 Semester Hours.** (Also listed as PS 342 and SO 342.) (It is strongly recommended that students take PS/SO/PO 341 Statistics with Advanced Topics in Behavioral Science prior to taking PS/SO/PO 342.) (Lab fee.)
Prerequisite: Psychology, sociology, political science major or minor or permission. Theory design and collection of data in behavioral science with emphasis given to techniques by which behavioral science data is collected, analyzed, and interpreted.

PO 350 **Introduction to the American Legal System. 3 Semester Hours.** (Also listed as JS 350, PSA 350, and SO 350.)
This course is a review of basic legal doctrines and processes in the United States system of jurisprudence. Students are introduced to a wide variety of topics in both civil and criminal justice. Topics include the theory and nature of law as a device for social control, torts, contracts, and ownership of property. The course is structured to provide prelaw majors with limited exposure to the many social conflicts managed by law and courts, and to provide education majors with an overview of law-related topics necessary for civics instruction.

PO 351 **American Public Policy. 3 Semester Hours.** (Also listed as SO 351.)
This course explores what federal, state, and local governments are doing to solve major social problems, such as poverty, crime, and those arising from minority group relations.

PO 364 **Civil Liberties. 3 Semester Hours.** (Also listed as JS 364.)
Analysis of leading cases and doctrines which balance governmental/societal interests with individual rights across a broad spectrum of social relationships. Explores the constitutional foundations for freedoms of expression, due process rights, and equal protection under law.

PO 377 **Public Administration. 3 Semester Hours.** (Also listed as MG 377 and PSA 377.)
An examination of the major issues and concepts associated with management of governmental agencies. Topics include personnel management, financial management and budgets, political and legal environments, employee rights and responsibilities, program evaluation, and community relations.

PO 380 **Public Finance. 3 Semester Hours.** (Also listed as PSA 380.)
This course provides students with information about government finance and budgeting. The political, administrative, and economic implications of decisions about government revenue sources, expenditures, and indebtedness are assessed.

PO 441 **Special Topics in Political Science. 1 Semester Hour.**
To be offered on occasion of student demand or need.

PO 442 **Special Topics in Political Science. 2 Semester Hours.**
To be offered on occasion of student demand or need.

PO 443 **Special Topics in Political Science. 3 Semester Hours.**
To be offered on occasion of student demand or need.

PO 452 **Comparative Political Systems. 3 Semester Hours.**
Examines the theory of comparative government as well as government and politics in Western Europe, Asia, Africa, and Latin America.

PO 453 **International Relations. 3 Semester Hours.**
A survey of the basic characteristics and theories of the international system. Special emphasis is placed on regional and international organization, international law, international economics, strategic studies, and international cooperation.

PO 455 **Public Administration Ethics. 3 Semester Hours.** (Also listed as JS 455 and PSA 455.) (Formerly titled Ethics for Public Administrators.)
Examines ethical issues encountered by administrators of government agencies. More specifically, this course explores the application of codes of ethics, theories of ethical decision-making, and ethical principles affecting public administration.

PO 461 **Directed Study/Research in Political Scieoce. 1 Semester Hour.** (To be offered on occasion of student demand or need.)
Prerequisite: Consent of instructor. Designed to meet the specific needs of Political Science majors.

PO 462 **Directed Study/Research in Political Science. 1 Semester Hour.** (To be offered on occasion of student demand or need.)
Prerequisite: Consent of instructor. Designed to meet the specific needs of Political Science majors.

PO 463 **Directed Study/Research in Political Science. 1 Semester Hour.** (To be offered on occasion of student demand or need.)
Prerequisite: Consent of instructor. Designed to meet the specific needs of Political Science majors.

PO 465 **Senior Research Project. 4 Semester Hours.** (Also listed as JS 465 and PSA 465.)
In this Capstone course, the student will work closely with the professor in designing and completing a major research project in an area of political science that is relevant to his or her career objectives. The student must be a political science major and have the consent of instructor.

Procurement (PR) Courses

PR 394 **Introduction to Procurement. 3 Semester Hours.**
An introduction to that aspect of management science concerned with procurement.

PR 395 **Price and Cost Analysis. 3 Semester Hours.**
An examination of the role of the government contracting officer in the acquisition process. Emphasis is given to considering pricing practices and theories and to assessing the government's procedures and methods of evaluating pricing and costing activity.

PR 396 **Advanced Procurement Concepts and Introduction to Government Contract Law. 3 Semester Hours.**
Prerequisite: PR 394. Detailed examination of the FAR to include recent interpretations of government contract law.

PR 397 **Contract Negotiation. 3 Semester Hours.**
Prerequisite: PR 394. An examination of the concepts and techniques of negotiation. Topics covered include strategies and tactics of contract negotiation, preparation for sound negotiation, organization and operation of a procurement team, the relative positions of strength required for successful negotiation, and limitations as imposed by law. In addition to class lectures, the students will participate in mock negotiations using case studies.

PR 398 **Contract Administration. 3 Semester Hours.**
Prerequisite: PR 394. An examination of the management of government contracts in the post-award phase. The content provides insight into the variety of administrative matters that arise during the life of a contract. Emphasis is given to a consideration of the rights and responsibilities of the government and contractor.

Psychology (PS) Courses

PS/SO301 **Introduction to Gender and Multicultural Studies. 3 Semester Hours.**
An introduction to the concepts, terminology, and issues in gender and multicultural studies including exploration of America's multicultural composition, gender as an element of culture, and contemporary issues in the field.

PS 304 **Drugs And Behavior. 3 Semester Hours.**
Prerequisite: Generol Psychology. A survey of the psychosocial factors related to drug abuse and addiction. Special emphasis will be focused upon estimation of drug epidemiology, consequences of drug usage, and treatment of drug addiction.

PS 310 **The Professional Psychologist. 1 Semester Hour.**
Prerequisite: Generol Psychology.
Examines the career options available to psychology majors. Topics include what to do with a Bachelor's degree in psychology and issues related to graduate schools.

PS 330 **Educational Psychology. 3 Semester Hours.**
Prerequisite: Generol Psychology. Application of psychological concepts and principles to classroom teaching and learning especially in the areas of motivation, individual differences, adjustment, and teacher-student interaction.

PS 331 **Social Psychology. 3 Semester Hours.**
Prerequisite: General Psychology. This course presents an indepth survey of theory, research findings, and research methods pertaining to how the individual's thoughts, feelings, and behaviors are influenced by the real or imagined presence of others. Understanding and critical analysis of primary research is emphasized with the goal of developing critical thinking skills. Topics include the self, person perception, attitudes and attitude change, interpersonal attraction and intimate relationships, stereotyping, prejudice and discrimination, and prosocial behavior.

PS 332 **Child Psychology. 3 Semester Hours.**
Prerequisite: General Psychology. Indepth survey of theory, research findings, and methods of obtaining knowledge regarding biological, cognitive, and psychosocial aspects of development from conception to puberty. Topics include prenatal development, motor and perceptual capacities in infancy, cognitive development, the self and self-understanding, and the family. Critical analyses of scientific research designs and methods will be emphasized.

PS 334 **Adolescent Psychology. 3 Semester Hours.**
Prerequisite: Generol Psychology. Indepth survey of theory, research findings, and methods of obtaining knowledge regarding biological, cognitive, and psychosocial aspects of adolescent development. Topics include physical change, cognitive development, development of identity, social development within the family and among peers, emotional development and moral attitudes. Critical analyses of scientific research designs and methods will be emphasized.

PS 335 **Adult Psychology. 3 Semester Hours. (Also listed as GE 335.)**
Prerequisite: Generol Psychology. Indepth survey of theory, research findings, and methods of obtaining knowledge regarding biological, cognitive, and psychosocial aspects of adult development. Topics include physical change, development of identity and social roles, intellectual changes over the life span, relationships, career and retirement choices, and coping with death and dying. Critical analyses of scientific research designs and methods will be emphasized.

PS 336 **Psychology of Learning. 3 Semester Hours.**
Prerequisite: Generol Psychology. A survey of the theories and concepts related to learning. The course will cover historical background, respondent conditioning, operant conditioning, imitation and cognitive models.

PS 341 **Statistics With Advanced Topics In Behavioral Science. 3 Semester Hours.** (Also listed as PO 341 and SO 341.)
Prerequisite: Psychology, Sociology, or Politicol Science major or minor or consent of instructor, Precolculus Algebra or Finite Mothemotics. Analysis of behavioral science data is considered by examining both descriptive statistics and inferential statistics. Advanced inferential topics will be studied for preparation for graduate school.

PS 342 **Methods of Behavioral Science Research. 3 Semester Hours.** (Also listed as PO 342 and SO 342.) (It is strongly recommended that students take PS/SO/PO 341 Statistics with Advanced Topics in Behavioral Science prior to taking PS/SO/PO 342.) (Lab fee.)
Prerequisite: Psychology, Sociology, Politicol Science Mojor or Minor or consent of instructor. Theory design and collection of data in behavioral science with emphasis given to techniques by which behavioral science data is collected, analyzed, and interpreted.

PS 352 **Abnormal Psychology. 3 Semester Hours.**
Prerequisite: Generol Psychology ond junior class stonding. This course presents and indepth survey of the field of psychopathology. Considerable emphasis is placed upon DSM IV terminology and diagnostic criteria and upon research related to the etiology and treatment of mental disorders. All major diagnoses are covered, but special attention is focused upon schizophrenia and other serious mental disorders. Additional attention is focused upon contemporary issues such as de-institutionalization, commitment procedures, and insanity defense.

PS 368 **Iodustrial and Personnel Psychology. 3 Semester Hours.** (Also listed as GBA 368.) (Sometimes taught on a pass/fail basis.)
The application of psychology to industrial organization. Areas of consideration include morale and group processes, supervisory leadership, selection and placement, training, motivation, fatigue, accidents, interviewing, and industrial counseling.

PS 375 **Organizational Behavior and Teambuilding. 3 Semester Hours.** (Also listed as MG 375, ATC 375 and PSA 375.) (Sometimes taught on a pass/fail basis.) (Lab fee.)
This course is designed to enhance class members' understanding of the causes and consequences of the behavior of people within the context of organizations, with emphasis on teamwork. To accomplish the learning goals for the course, varying instructional methodologies will be employed including lecture, and assigned readings from the text, journal articles, and the web. A significant amount of class time will be spent in experiential exercises.

PS 380 **Experimental Psychology. 3 Semester Hours.** (Lab fee.)
Prerequisite: Psychology Major or Minor and PS/SO/PO 341 Statistics With Advonced Topics in Behoviorol Science. in Corequisite: PS 380L.
An introductory course in experimental methods and procedures in psychology. Topics of discussion will include: hypothesis formation, internal and external validity, true experimental designs, quasi-experimental designs, single-subject designs, evaluation research, data collection, ethics, and formal reporting. Laboratory experience included.

PS 380L **Experimeotal Psychology Laboratory. 1 Semester Hour.**
Corequisite: PS 380.

PS 401 **Elements of Skeptical, Critical, and Logical Thinking. 3 Semester Hours.** (Also listed as ATC/PH 401.)
Prerequisite: Generol Psychology. A course that encourages thinking skills and is divided into three domains. Skeptical thinking will be entertained first followed by critical thinking or informal logic, with formal logic being addressed last. Skeptical thinking will be taught using "Occam's razor," and informal logic will be studied by analyzing cognitive biases and cognitive fallacies. Formal logic will be learned through the use of categorical sentences, truth functions, and inductive and deductive reasoning.

PS 402 **Introduction to Clinical Psychology. 3 Semester Hours.**
Prerequisite: Generol Psychology. An introduction to personality theory and the techniques of counseling and psychotherapy. An approach to psychotherapy and psychotherapeutic techniques will be emphasized within which various schools of thought can be considered in terms of a common framework.

PS 406 **Physiological Psychology. 3 Semester Hours.** (Lab fee.)
Prerequisite: Generol Psychology. A study of the relationships between physiological and psychological functions with special emphasis on mind-body interaction and the physiological explanations for human behavior Topics of study include: nervous and endocrine systems, sleeping and waking, ingestive behavior, sexual behavior, reinforcement, punishment, motivation, emotions, and learning (disabilities, dysfunctions, etc.)

PS 410 **History and Systems of Psychology. 3 Semester Hours.**
Prerequisite: Generol Psychology. A consideration of the scientific and philosophical antecedents of psychology, in addition to the history of the discipline. The course spans pre-Socratic thought to current and emerging issues in the field of psychology.

PS 420 **Cognitive Psychology. 3 Semester Hours.**
Prerequisite: Generol Psychology. This is an advanced psychology course that surveys the major topics in cognitive psychology Special emphasis will be focused on attention, memory, language usage, problem solving, and decision making. It is strongly recommended that the student have completed Statistics With Advanced Topics in Behavioral Science and either Experimental Psychology or Methods of Behavioral Science Research.

PS 425 **Tests & Measurements. 3 Semester Hours.** (Lab fee.)
Prerequisite: Generol Psychology. A survey of commonly used educational and psychological tests. Special emphasis will be focused upon test construction, standardization, reliability, validity, and the development of classroom (curriculum based) tests.

PS 441 **Special Topics in Psychology. 1 Semester Hour.**
Prerequisite: Generol Psychology. To be offered on occasion of student demand or need.

PS 442 **Special Topics in Psychology. 2 Semester Hours.**
Prerequisite: General Psychology. To be offered on occasion of student demand or need

PS 443 **Special Topics in Psychology. 3 Semester Hours.**
Prerequisite: Generol Psychology. To be offered on occasion of student demand or need.

PS 444 **Special Topics in Psychology. 4 Semester Hours.**
Prerequisite: Generol Psychology. To be offered on occasion of student demand or need.

PS 461 **Directed Studies in Psychology. 1 Semester Hour.** (To be offered on occasion of student demand or need.)
Prerequisite: Generol Psychology ond consent of instructor. The student studies in an area of his/her particular interest approved by the instructor.

PS 462 **Directed Studies in Psychology. 2 Semester Hours.** (To be offered on occasion of student demand or need.)
Prerequisite: Generol Psychology and consent of instructor. The student studies in an area of his/her particular interest approved by the instructor

PS 463 **Directed Studies in Psychology. 3 Semester Hours.** (To be offered on occasion of student demand or need.)
Prerequisite: General Psychology and consent of instructor. The student studies in an area of his/her particular interest approved by the instructor.

PS 497 **Practicum in Psychology/Sociology/Gerontology. 3 Semester Hours.** (Also listed as SO/GE 497.)
Prerequisite: Senior stonding ond consent of instructor. This course provides the student an opportunity to experience the theoretical concepts and knowledge obtained in the classroom. The practicum entails approximately eight hours per week of supervised field experiences in appropriate community agencies, institutions, industrial or research settings, and bi-weekly in-class seminars.

PS 498 **Practicum in Psychology/Sociology. 3 Semester Hours.** (Also listed as SO 498.)
Prerequisite: Senior stonding ond consent of instructor. This course provides the student an opportunity to experience the theoretical concepts and knowledge obtained in the classroom. The practicum entails approximately eight hours per week of supervised field experiences in appropriate community agencies, institutions, industrial or research settings, and bi-weekly in-class seminars.

Public Safety Administration (PSA) Courses

PSA 349 **Human Resources Management. 3 Semester Hours.** (Also listed as MG 349)
A study of the technical functions of Human Resources Management. Emphasis is on application to organizations that deliver public safety services. Topics include the traditional Human Resources Management functional field areas of labor law, personnel administration, labor economics and organizational behavior/theory.

PSA 350 **Introduction to the American Legal System. 3 Semester Hours.** (Also listed as JS 350, PO 350, and SO 350.)
This course is a review of basic legal doctrines and processes in the United States system of jurisprudence. Students are introduced to a wide variety of topics in both civil and criminal justice. Topics include the theory and nature of law as a device for social control, torts, contracts, and ownership of property. The course is structured to prelaw majors with limited exposure to the many social conflicts managed by law and courts, and to provide education majors with an overview of law-related topics necessary for civics instruction.

PSA 360 **Safety Management for Outdoor Recreation. 3 Semester Hours.**
This course focuses on development and management of outdoor recreational safety programs and services provided by public agencies. This course examines and encompasses the following topics: the range and extent of outdoor recreation opportunities and services provided by public agencies and on public lands; the current and projected use of public recreational opportunities; accident causation factors; survey of outdoor recreation safety and security programs; and, development of programs for specific outdoor safety problems.

This course is intended primarily for those contemplating or currently employed in those professions of public safety, leisure services management, or outdoor recreation. Emphasis will be on planning safety programs for outdoor leisure pursuits and protection of the natural environment for recreational uses.

PSA 375 **Organizational Behavior. 3 Semester Hours.** (Also listed as MG 375 and PS 375.) (Sometimes taught on a pass/fail basis.) (Lab fee.)
A consideration of human behavior in organizational settings with emphasis on individual processes, group processes, and organizational structure and functions.

PSA 377 **Public Administration. 3 Semester Hours.** (Also listed as MG 377 and PO 377.)
An examination of the major issues and concepts associated with management of governmental agencies. Topics include personnel management, financial management and budgets, political and legal environments, employee rights and responsibilities, program evaluation, and community relations.

PSA 380 **Public Finance. 3 Semester Hours.** (Also listed as PO 380.)
This course provides students with information about government finance and budgeting. The political, administrative, and economic implications of decisions about government revenue sources, expenditures, and indebtedness are assessed.

PSA 390 **Fire Service Administration 3 Semester Hours. (PSA majors only.)**
Prerequisite: State certificatian as a Fire Officer II and Fire Instructar II. (A Fire Officer II certificatian caurse may be taken concurrently.)
An examination of numerous topics that are of vital importance to the administration of the modern fire service agency. After completion with a grade of C or higher, the student is eligible for State of Alabama certification as a Fire Officer III.

PSA 400 **Public Safety Education. 3 Semester Hours.**
This course presents an overview, through lectures, discussions, and readings, of the foundations of training for professional and public educational programs, and a comprehensive examination of the principles of education for adult learners. The intended audience for this course are those students who are currently involved in the delivery of fire and life-safety educational programs for the public, teach public safety professionals in an academy setting, or for those students who anticipate working with adult learners in one of these settings. This course will include a research/field experience component. It is important that the student have proficiency in a public safety field, and a sufficient core of professional courses prior to taking this course. **Students must have consent of the instructor to take this course.**

PSA 425 **Strategic Management Concepts for Public Safety Management. 3 Semester Hours.**
An examination of the interrelationships among the various functions of public safety agencies, and a critical inquiry into the process of planning, implementing, and controlling the organizational strategy of Public Safety agencies. Also included is a consideration of the strategies needed to reinvent government.

PSA 441 **Special Topics in Public Safety. 1 Semester Hour.**
To be offered on occasion of student demand or need.

PSA 442 **Special Topics in Public Safety. 2 Semester Hours.**
To be offered on occasion of student demand or need.

PSA 443 **Special Topics in Public Safety. 3 Semester Hours.**
To be offered on occasion of student demand or need.

PSA 444 **Special Topics in Public Safety. 4 Semester Hours.**
To be offered on occasion of student demand or need.

PSA 445 **Contemporary Issues Seminar in Public Safety. 3 Semester Hours.** (Also listed as JS 445.)
An examination of contemporary topics that profoundly impact all public safety agencies. Subjects addressed include laws, court rulings, and regulatory agency requirements. Utilizes a research seminar format.

PSA 455 **Public Administration Ethics. 3 Semester Hours.** (Also listed as JS 455 and PO 455.) (Formerly titled Ethics for Public Administrators.)
Examines ethical issues encountered by administrators of government agencies. More specifically, this course explores the application of codes of ethics, theories of ethical decision-making, and ethical principles affecting public administration.

PSA 459D **Public Safety Supervisor. 3 Semester Hours.**

PSA 460D **Public Safety Manager/Administrator. 3 Semester Hours.**

PSA 461D **Public Safety Instructor. 3 Semester Hours.**

PSA 462D **Haz-Mat Technician. 3 Semester Hours.**

PSA 463D **Haz-Mat Specialist. 3 Semester Hours.**

PSA 465 **Senior Research Project. 4 Semester Hours.** (Also listed as JS 465 and PO 465.)
Prerequisite: Public Safety Administration major and consent of instructor. Provides supervised administrative experiences in appropriate public safety agencies. This course includes routine seminars with discussion and evaluation of experiences in the field.

Physics (PY) Courses

PY 300 **Physics for Non-majors. 4 Semester Hours.** (Lab fee.)
Prerequisite: Precalculus algebra. Comprehensive introduction to concepts and methods of physics, including discussion of mechanics, thermal physics, electricity and magnetism, and optics. Some basic problem solving is required.

PY 301 **Calculus Physics I. 3 Semester Hours.** (Lab fee.)
Corequisite: PY 301L. Prerequisite: Calculus I, II. Calculus-based introduction to principles of mechanics, energy, waves, and fluids.

PY 301L **Calculus Physics I Lab. 1 Semester Hour.**
Carequisite: PY 301.

PY 302 **Calculus Physics II. 3 Semester Hours.** (Lab fee.)
Corequisite: PY 302L. Prerequisite: PY 301. Continuation of PY 301. Calculus-based introduction to principles of heat, electricity, magnetism, and optics.

PY 302L **Calculus Physics II Lab. 1 Semester Hour.**
Corequisite: PY 302. Prerequisite: PY 301L.

PY 303 **Calculus Physics III (Modern Physics). 3 Semester Hours.** (Lab fee.)
Carequisite: PY 303L. Prerequisite: General Physics (Calculus-Based) I, II. Calculus-based introduction to topics in modern physics, including quantum physics and atomic and nuclear structure.

PY 303L **Calculus Physics III (Modern Physics) Lab. 1 Semester Hour.**
Corequisite: PY 303.

PY 306 **Thermal Physics. 4 Semester Hours.**
Prerequisite: PY 302, Calculus III. Study of thermal energy, equations of state, entropy, and the laws of classical and statistical thermodynamics.

PY 309 **Mechanics I. 3 Semester Hours.**
Prerequisite: PY 302, MA 421. Study of the laws and principles of classical mechanics including particle motion, central forces, and motion of rigid bodies. Solution of many problems required.

PY 310 **Mechanics II. 3 Semester Hours.**
Prerequisite: PY 309. Study of laws and principles of classical mechanics including particle motion, central forces, and motion of rigid bodies. Solution of many problems required.

PY 312 **Electricity and Magnetism I. 3 Semester Hours.**
Prerequisite: PY 302, MA 421. Theory of electromagnetic fields and waves as developed from basic experimental laws. Emphasis placed on techniques of problem solving.

PY 344 **Principles Of Optics. 4 Semester Hours.** (Lab fee.)
Prerequisite: PY 303, MA 421. Study of optical phenomena including wave motion, reflection, refraction, image formation, and dispersion.

PY 345 **Physical Optics. 4 Semester Hours.** (Lab fee.)
Prerequisite: PY 344. Selected topics in classical and modern physical optics. Covers polarization, interference, Fresnel and Fraunhofer diffraction, Fourier methods, coherence, stimulated emission, lasers, and holography.

PY 412 **Electricity and Magnetism II. 3 Semester Hours.**
Prerequisite: PY 312. Theory of electromagnetic fields and waves as developed from basic experimental laws. Emphasis is placed on techniques of problems solving.

PY 415 **Intermediate Quantum Physics I. 3 Semester Hours.**
Prerequisite: PY 303, MA 428 recommended. Advanced introduction to quantum mechanics, the Schroedinger wave equation, the one-electron atom, spin, and complex atoms.

PY 416 **Intermediate Quantum Physics II. 3 Semester Hours.** (Continuation of PY 415.)
Prerequisite: PY 415. Advanced introduction to molecules, statistical physics, solids, and nuclear physics.

PY 435 **Senior Laboratory. 3 Semester Hours.** (Lab fee.)
Prerequisite: PY 303, 309, and 312. Selected experiments from modern physics, electricity and magnetism, optics, and thermodynamics.

PY 441 **Special Topics in Physics. 3 Semester Hours.**
Prerequisite: Consent of instructor. Selected topics in upper-level physics. To be offered on occasion of student demand or need.

PY 461 **Directed Study and Research in Physics. 1 Semester Hour.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

PY 462 **Directed Study and Research in Physics. 2 Semester Hours.**
Prerequisite: Consent of instructor. To be offered on occasion of student demand or need.

PY 463 **Directed Study and Research in Physics. 3 Semester Hours.**
Prerequisite: Consent of Instructor. To be offered on occasion of student demand or need.

Religion (RE) Courses

RE 301 **Religions That Shaped the World. 3 Semester Hours.**
A survey of religions from ancient Egypt, Mesopotamia, Greece, Persia, Rome, Africa, America and the Eastern Religions of India, China, and Japan. This course will examine how these religions have shaped and continue to shape our religious world views.

RE 303 **Current Religious Movements and Issues. 3 Semester Hours.**
An examination of current religious issues and movements which are influential in the thought and practice of modern society.

RE 305 **Survey of Religious Education. 3 Semester Hours.**
This course provides an introduction to the field of religious education. The philosophy, history, processes and methods, organization, administration, and institutions concerned with the delivery of contemporary Christian educational ministries will be examined. Particular emphasis will be placed on specialized and parachurch religious educational organizations and processes representing a variety of denominations and faiths.

RE 312 **History of Judaism. 3 Semester Hours.**
Presents Judaism from the destruction of the Temple through medieval times. Examines the world of Talmud, Midrash, Response and the general Diaspora. Requires reading from historical and tenetial sources.

RE 314 **History of Islam. 3 Semester Hours.**
Presents Islam from its beginning, in an historical, religious, and geographical context, to its major geographical, doctrinal, and sectarian spread internationally.

RE 325 **Philosophy of Religion. 3 Semester Hours.** (Also listed as PH 325.)
A philosophical study of the grounds of religious belief and practice, the relationship of man to God and its implications for morality and the belief in life after death. Special attention is given to the impact of science upon religion.

RE 327 **Sociology of Religion. 3 Semester Hours.** (Also listed as SO 327.)
The interaction, interpretation, and interrelationships of religion, society, and individual morality in American religious behavior and institutions.

RE 330 **Biblical Hebrew Grammar I. 3 Semester Hours.**
Inductive approach, utilizing the Biblical narratives, especially in Genesis and the Books of Kings.

RE 331 **Biblical Hebrew Grammar II. 3 Semester Hours.**
Emphasis on conjugations, syntax, and morphology, Hebrew poetry, and Hebrew narrative.

RE 340 **New Testament Greek I. 3 Semester Hours.**
For Beginners. Greek grammar utilizing New Testament vocabulary.

RE 341 **New Testament Greek II. 3 Semester Hours.**
Continuation of RE 340.

RE 351 **Introduction to Christian Thought. 3 Semester Hours.**
A critical study of contemporary Christian theological perspectives, which will cover a broad spectrum of current theological perspectives including evangelical,

conservative, liberal, neo-reformation, liberationist, feminists, and other post-modern approaches.

RE 403 **Religion in Life. 3 Semester Hours.**
An examination of religious ethics from various religious perspectives with the primary focus on western religious traditions and a comparison of western traditions with eastern ones observing both similarities and differences.

RE 405 **Religious Education of Adults. 3 Semester Hours.**
This course presents an overview, through lectures, discussions, and readings, of the foundations of adult religious education, a survey of adult religious education programs, and a comprehensive examination of the principles of education for adult learners. The intended audience for this course are those students who are currently involved in the delivery of religious educational programs, or those students who anticipate working with adult learners in a religious setting. This course includes a research/field experience component.

RE 409 **Christian Thought in Early Centuries. 3 Semester Hours.**
A study of Christian thought in Jesus, Paul, and other leaders in the first centuries.

RE 412 **The Hebrew Prophets. 3 Semester Hours.**
An examination of the settings, psychology, and conventional forms of prophecy in the ancient Near East as well as the writings of the former and latter prophets of the Old Testament.

RE 413 **The Wisdom and Devotional Literature. 3 Semester Hours.**
A historical and faith analysis of the Books of Joh, Ecclesiastes, Song of Solomon, Proverbs, Psalms, and other 4th and 3rd century BC Old Testament writings.

RE 415 **Religious Dimensions in Literature and Art. 3 Semester Hours.**
A study of various theological themes as they appear in literature and the arts.

RE 416 **Interpreting the Text. 3 Semester Hours** (Also listed as EH 416).
An examination of various ancient, historical, and literary methods of interpreting literature covering the range from ancient ways of reading texts to current poststructuralist approaches. Even though primary emphasis will center on religious texts, there will be considerable attention given to issues and methods that emerged from the realms of the social sciences, literature, and philosophy.

RE 417 **Internship Senior Research Project: Religious Education. 4 Semester Hours.**
This course provides opportunities for students to document and present directed research and supervised on-site work experiences in appropriate religious education settings. This course includes regularly scheduled discussion conferences and the evaluation of field experiences.

RE 441 **Special Topics in Religion. 1 Semester Hour.**
To be offered on occasion of student demand or need.

RE 442 **Special Topics in Religion. 2 Semester Hours.**
To be offered on occasion of student demand or need.

RE 443 **Special Topics in Religion. 3 Semester Hours.**
To be offered on occasion of student demand or need.

RE 461 **Directed Study/Research in Religion. 1 Semester Hour.**
(Open only to superior majors.) (May be repeated for up to six additional hours of credit.) (To be offered on occasion of student demand or need.)
Prerequisite: Consent of instructor.

RE 462 **Directed Study/Research in Religion. 1 Semester Hour.**
(Open only to superior majors.) (May be repeated for up to six additional hours of credit.) (To be offered on occasion of student demand or need.)
Prerequisite: Consent of instructor.

RE 463 **Directed Study/Research in Religion. 1 Semester Hour.**
(Open only to superior majors.) (May be repeated for up to six additional hours of credit.) (To be offered on occasion of student demand or need.)
Prerequisite: Consent of instructor.

Secondary Education (SC) Courses

SC 331 **Issues in Secondary Education. 3 Semester Hours.** (Formerly titled Professional Education for Teaching Middle/High School.)
This beginning education course is designed to facilitate the acquisition of professional attributes and to improve oral and written communication skills by refining study and research skills, using professional vocabulary, sharing research findings about educational trends and issues, and writing lesson plans. Attributes and dispositions will be articulated, defined, and modeled. These dispositions will be encouraged in oral presentations and collegial interactions. Practice in oral and written language usage will occur through writing and speaking about current educational concerns. Twelve (12) hours of field experience required.

SC 333 **Teaching Reading and Writing In the Content Areas. 3 Semester Hours.**
Prerequisite: Admission to the Teacher Education Program. A course designed for teachers of students in middle school and high school to develop creative instructional strategies to promote reading comprehension, vocabulary development, and study strategies in the fields of humanities, social sciences, natural sciences, physical education, math, learning disabilities, and vocational education. Nineteen (19) hours of field experience required. Students must spend two full days (14 hours) in a public school setting. Students must also tutor an at-risk student for 5 hours.

SC 431 **Teaching in Middle/High School. 3 Semester Hours.**
Prerequisite:Admission to the Teacher Education Program and SC 331 Issues in Secondary Education. The course includes the fundamental principles and techniques in planning, implementing, and evaluating learning activities and in selecting and using appropriate materials and equipment. The second phase is individualized according to the student's major areas. This course should be taken the semester prior to the internship. A total of twenty-one (21) hours of field experience is required.

SC 484 **Internship In Middle School. 9 Semester Hours.** (Lab fee.)
Prerequisite: Senior standing and admission to the Teacher Education Program. Fourteen-week internship program. This culminating experience of the Teacher Education Program provides practical experience in teaching classes in state-accredited schools under the guidance of a cooperating teacher and supervision of a college professor. Seminar attendance is required.

SC 485 **Internship In Middle School. 5 Semester Hours.** (Lab fee.)
Seven-week internship program for persons seeking additional certification.

SC 486 **Internship in High School. 9 Semester Hours.** (Lab fee.)
Prerequisite: Senior standing and admission to the Teacher Education Program. Fourteen-week internship program. This culminating experience of the Teacher Education Program provides practical experience in teaching classes in state-accredited schools under the guidance of a cooperating teacher and supervision of a college professor. Seminar attendance is required.

SC 487 **Internship in High School. 5 Semester Hours.** (Lab fee.)
Seven-week internship program for persons seeking additional certification.

Special Education (SE) Courses

SE 301 **Introduction to Exceptional Learners. 3 Semester Hours.**
A general survey course which addresses etiology, identification, incidence, curriculum modification, parent interaction, placement options, and inclusion of all types of educationally exceptional learners in general education settings. Field experience is required.

SE 305 **Meeting the Needs of Exceptional Career/Technical Education Students. 3 Semester Hours.**
A general survey course which addresses the identification, characteristics, needs, and legal rights of adolescent and adult exceptional learners. Instruction and curriculum modifications and interagency planning to assist in serving the unique needs of these students will also be addressed.

SE 315 **Introduction to Cognitive and Health Disabilities. 3 Semester Hours.**
Prerequisite: SE 301 or concurrent enrollment. This course provides an overview of causes, characteristics, educational needs of, and issues associated with mental retardation, orthopedic impairments, and other health impairments. Field experience is required.

SE 325 **Introduction to Learning and Emotional Disabilities. 3 Semester Hours.**
Prerequisite: SE 301 or concurrent enrollment. This course provides an overview of causes, characteristics, and issues associated with learning disabilities and emotional disabilities. Field experience is required.

SE 335 **Curriculum Development and Adaptations. 3 Semester Hours.**
Prerequisite: Math or reading methods courses as well as SE 301 or concurrent enrollment. This course teaches the sources and development of appropriate curricula for a wide variety of students. It will include familiarity with state courses of study for inclusive settings as well as intense curricula for social and occupational needs in the resource setting.

SE 345 **Assessment I: Norm Referenced Tests. 3 Semester Hours.** (Lab fee.)
Prerequisite: SE 301 and either 315 or 325. This course provides training and hands-on experience with formal, norm-referenced tests for use with exceptional students at elementary and secondary school levels. Topics include basic concepts of measurement, test development and technical characteristics, test administration, test scoring, and score interpretation. Administration of a battery of tests to a student and preparation of a formal report of testing are required.

SE 355 **Alternative Instructional Strategies. 3 Semester Hours.**
Prerequisite: At least one math and one reading methods course and SE 355, 315,or 325; concurrent enrollment. This course provides the pre-service teacher with alternative corrective procedures for a variety of academic, social, and occupational problems. Field experience is required.

SE 415 **Transition Planning and Learning Strategies for Adolescents. 3 Semester Hours.**
Prerequisite: SE 301,315, 325, 335 or concurrent enrollment. This course provides training and hands-on experience with intervention strategies for adolescents with a variety of needs. It will include expertise in academic support, functional skills, social and career skills. Field experience is required.

SE 425 **Conferencing and Collaborative Techniques. 3 Semester Hours.**
Prerequisite: Admission to TEP. This course is designed to develop communication skills and ethical standards in communicating programs and problems of the exceptional learner to parents, professionals, students, and other appropriate personnel. May be taken concurrently with the internship.

SE 435 **Strategies for Individuals with Severe Disabilities. 3 Semester Hours.**
Prerequisite: SE 301, 315, 325 and 335. This course provides training and hands-on experience with intervention strategies for students with severe mental, physical, and emotional disabilities. It will include intensive field experience in functional skills, movement and medical procedures, and in working with out-of-control students. Field experience is required.

SE 445 **Assessment II: Advanced Procedures and Techniques. 3 Semester Hours.** (Lab fee.)
Prerequisite: SE 345. This course focuses on assessment procedures that do not rely on formal, norm-referenced tests. Topics include curriculum-based assessment, portfolio assessment, functional behavioral assessment, and the use of structured observation, rating scales, and assessment of classroom ecology. Administration of batteries of tests, application of techniques and procedures from this course to two students, and preparation of a formal written report of assessments are required.

SE 455 **Language and Development Strategies for Young Children. 3 Semester Hours.**
Prerequisite: SE 301, 315, 325 or concurrent enrollment. This course emphasizes the development of language, cognitive, social, and motor skills. Topics include strategies and materials used to meet the developmental needs of young children with a variety of disabilities. Field experience is required.

SE 465 **IEPs and Other Legal Issues. 3 Semester Hours.**
Prerequisite: SE 301, 315, 325. Admission to TEP. This course provides an overview of legal guidelines governing the implementation of special education services including federal and state regulations as well as court cases. It will include development of IEPs for a variety of students.

SE 476 **Internship for Collaborative Education K-6. 9 Semester Hours.** (Lab fee.)
Prerequisite: Senior standing and admission to the Teacher Education Program. Fourteen-week internship program. This culminating experience of the Teacher Education Program provides practical experience in teaching classes in state-accredited schools under the guidance of a cooperating teacher and supervision of a college professor. Seminar attendance is required.

SE 478 **Internship for Collaborative Education 6-12. 9 Semester Hours.** (Lab fee.)
Prerequisite: Senior standing and admission to the Teacher Education Program. Fourteen-week Internship Program. This culminating experience of the Teacher Education Program provides practical experience in teaching classes in state-accredited schools under the guidance of a cooperating teacher and supervision of a college professor. Seminar attendance is required.

SE 495 **Classroom Management and Discipline. 3 Semester Hours.**
Prerequisite: SE 301 and either SE 315 or 325. This course is designed to develop an understanding of classroom dynamics and behavioral problems. Topics include physical environment management and curriculum management as well as a wide variety of disciplinary strategies.

SO 300 **Moral Values Today's Society. 3 Semester Hours.** (Also listed as PH 300.)
This course examines the moral values of various societies as well as those of individual moral philosophers past and present to see how they legitimate their views of what constitutes a good and desirable life.

SO 301 **Introduction to Multicultural Studies. 3 Semester Hours.**
An introduction to the concepts, terminology, and issues in gender and multicultural studies including exploration of America's multicultural composition, gender as an element of culture, and contemporary issues in the field.

SO 304 **Sociology of Work. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. Consists of sociological analysis of work in pre-industrial and industrial societies, a consideration of problems involved in the conceptual and empirical study of occupations and professions; an examination of the process of professionalism; and the study of leisure and the social consequences of changes in occupations and professions.

SO 312 **Majority/Minority Group Relations. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. A study of the principles and processes which shape the patterns of relations between majority groups, racial, ethnic, and other groups, with emphasis on American society, along with a comparison of intergroup relations in other societies.

SO 314 **Population Study. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. The relationship of demographic factors to the social structure. Trends in fertility, mortality, population growth, distribution, migration, and composition.

SO 327 **Sociology of Religion. 3 Semester Hours.** (Also listed as RE 327.)
Prerequisite: Introduction to Sociology. The interaction, interpretation, and interrelationships of religion, society, and individual morality in American religious behavior and institutions.

SO 341 **Statistics With Advanced Topics In Behavioral Science. 3 Semester Hours.** (Also listed as PO 341 and PS 341.)
Prerequisite: Psychology, Sociology, or Political Science Major or Minor or Permission, Precalculus Algebra or Finite Mathematics. Analysis of behavioral science data is considered by examining both descriptive statistics and inferential statistics. Advanced inferential topics will be studied for preparation for graduate school.

SO 342 **Methods of Behavioral Science Research. 3 Semester Hours.** (Also listed as PO 342 and PS 342.) It is strongly recommended that students take PS/SO/PO 341 Statistics With Advanced Topics in Behavioral Science prior to taking PS/SO/PO 342. (Lab fee.)
Prerequisite: Psychology, Sociology, Political Science Major or Minor, or Permission. Theory design and collection of data in behavioral science with emphasis given to techniques by which behavioral science data is collected, analyzed, and interpreted.

SO 350 **Introduction to the American Legal System. 3 Semester Hours.** (Also listed as JS 350, PO 350, and PSA 350.)
Prerequisite: Introduction to Sociology. This course is a review of basic legal doctrines and processes in the United States system of jurisprudence. Students are introduced to a wide variety of topics in both civil and criminal justice. Topics include the theory and nature of law as a device for social control, torts, contracts, and ownership of property. The course is structured to provide prelaw majors with limited exposure to the many social conflicts managed by law and courts, and to provide education majors with an overview of law-related topics necessary for civics instruction.

SO 351 **American Public Policy. 3 Semester Hours.** (Also listed as PO 351.)
Prerequisite: Introduction to Sociology. Explores what federal, state, and local governments are doing to solve major social problems, such as poverty, crime, and minority group relations.

SO 360 **Contemporary American Family. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. A study of the origin and evolution of the American family as a social institution and the relationship of family structure to social organization. Emphasis will be placed upon the development of the family from colonial days to its contemporary forms and the larger social context within which the family has developed.

SO 361 **Social Analysis. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. A study of the basic principles of social organization including an examination of the structure and function of groups and complex organizations including social institutions, with special emphasis on their operation in American society.

SO 362 **Deviant Social Behavior. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. An in-depth examination of the social implication of labeling deviant behavior and its effects upon both the individual and society.

SO 363 **Social Structure and Personality. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. An analysis of the relationship of the culture and individual behavior through social influences.

SO 401 **Adult Corrections. 3 Semester Hours.** (Also listed as JS 401.)
Prerequisite: Introduction to Sociology. Socioeconomic facets of crime and principles and practices of delinquency, probation, and parole. Interaction (environmental and attitudinal) of persons from sentencing to return to society will be stressed.

SO 441 **Special Topics in Sociology. 1 Semester Hour.**
Prerequisite: Introduction to Sociology. A study of social issues and contemporary social problems and their consequences.

SO 442 **Special Topics in Sociology. 2 Semester Hours.**
Prerequisite: Introduction to Sociology. A study of social issues and contemporary social problems and their consequences.

SO 443 **Special Topics in Sociology. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. A study of social issues and contemporary social problems and their consequences.

SO 444 **Special Topics in Sociology. 4 Semester Hours.**
Prerequisite: Introduction to Sociology. A study of social issues and contemporary social problems and their consequences.

SO 452 **Advanced Criminology. 3 Semester Hours.** (Also listed as JS 452.)
Prerequisite: Introduction to Sociology. Analysis of social causal process and theories by which individuals become criminals and evaluation of the effectiveness of the criminal justice system in returning helpful, contributing citizens back to society. Historical and contemporary orientation.

SO 453 **Juvenile Delinquency. 3 Semester Hours.** (Also listed as JS 453)
Prerequisite: Introduction to Sociology. The course applies a sociological approach to analyzing juvenile delinquency. While recognizing a variety of the causes (physiological, psychological, and social) of juvenile delinquency, this approach focuses on the impact of societal conditions on juvenile delinquency. The course combines a theoretical and an empirical emphasis.

SO 460 **Sociological Theories. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. An historical examination of the theories and principles of sociological theory with emphasis on current theory and its relationship to research.

SO 461 **Directed Study/Research in Sociology. 1 Semester Hour.**
Prerequisite: Introduction to Sociology. Designed to examine selected topics from a sociological perspective. Open to senior-level majors by approval.

SO 462 **Directed Study/Research in Sociology. 2 Semester Hours.**
Prerequisite: Introduction to Sociology. Designed to examine selected topics from a sociological perspective. Open to senior-level majors by approval.

SO 463 **Directed Study/Research in Sociology. 3 Semester Hours.**
Prerequisite: Introduction to Sociology. Designed to examine selected topics from a sociological perspective. Open to senior-level majors by approval.

SO 471 **Aging in a Mass Society. 3 Semester Hours.** (Also listed as GE 471.)
Prerequisite: Introduction to Sociology. A study of the aging process, the special problems encountered by the aging and by the institutions of society involved in the care of the aging.

SO 490 **Senior Sociology Seminar. 1 Semester Hour.**
Prerequisite: Introduction to Sociology. Students synthesize material presented in courses on theory, methods, statistics, as well as an understanding of issues in substantive areas by preparing a written critical analysis of several published research articles. Graduating seniors majoring in sociology must complete this course to demonstrate competency. Enrollment should be only in the last semester before graduation.

SO 497 **Practicum in Psychology/Sociology/Gerontology. 3 Semester Hours.** (Also listed as PS/GE 497.)
Prerequisite: Senior Standing and Approval of Instructor. This course provides the student an opportunity to experience the theoretical concepts and knowledge obtained in the classroom. The practicum entails approximately eight hours per week of supervised field experiences in appropriate community agencies, institutions, industrial or research settings, and bi-weekly in-class seminars.

SO 498 **Practicum in Psychology/Sociology. 3 Semester Hours.** (Also listed as PS498.)
Prerequisite: Senior Standing and Approval of Instructor. This course provides the student an opportunity to experience the theoretical concepts and knowledge obtained in the classroom. The practicum entails approximately eight hours per week of supervised field experiences in appropriate community agencies, institutions, industrial or research settings, and bi-weekly in-class seminars.

Social Science (SS) Courses

SS 301 **Social Science Research Methods. 3 Semester Hours.** (Also listed as PO 301 and HY 301.) (Required of B.S.Ed. degree-seeking History and Social Science majors; may not be taken by B.A. degree-seeking history major.)
A course designed to develop the techniques of social science research and to explore varying historical interpretations.

SS 310 **Modern Economics. 3 Semester Hours.** (Also listed as EC 310.)
A macro examination of the operation of modern economic systems including price determination, aggregate demand and supply theory, public policy options, and the philosophical foundations of free market and command systems.

SS 321 **Money And Banking. 3 Semester Hours.** (Also listed as EC 321.)
Prerequisite: Principles of Economics. A study of how money, credit, and interest rates affect the level of employment, production, and prices in the economy. Topics of study will include the Federal Reserve System, the operations of commercial banks, credit controls, the theory of income determination, as well as recent trends in banking.

SS 323 **Introduction To Managerial Economics. 3 Semester Hours.** (Also listed as EC 323.)
A course that analyzes the behavior of individual firms and households carrying on production or consumption. The material provides a practical examination of important macroeconomic principles behind the operation of any modern business and explains the analytical tools used in making effective management decisions.



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